

Program Complot
(Version 2018-1)

by

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Press Mouse Button to Start

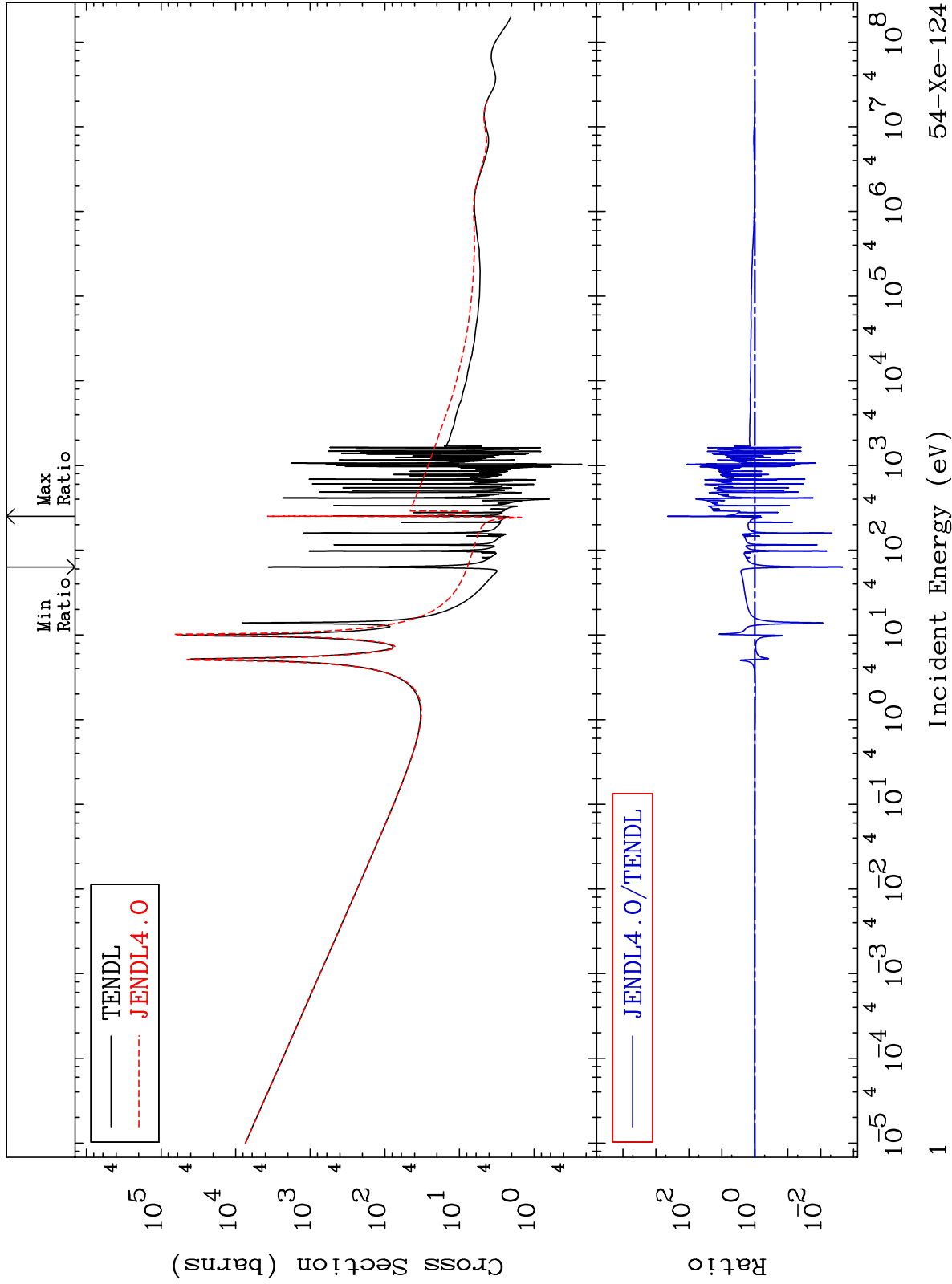
MAT 5425

Total

54-Xe-124

Cross Section

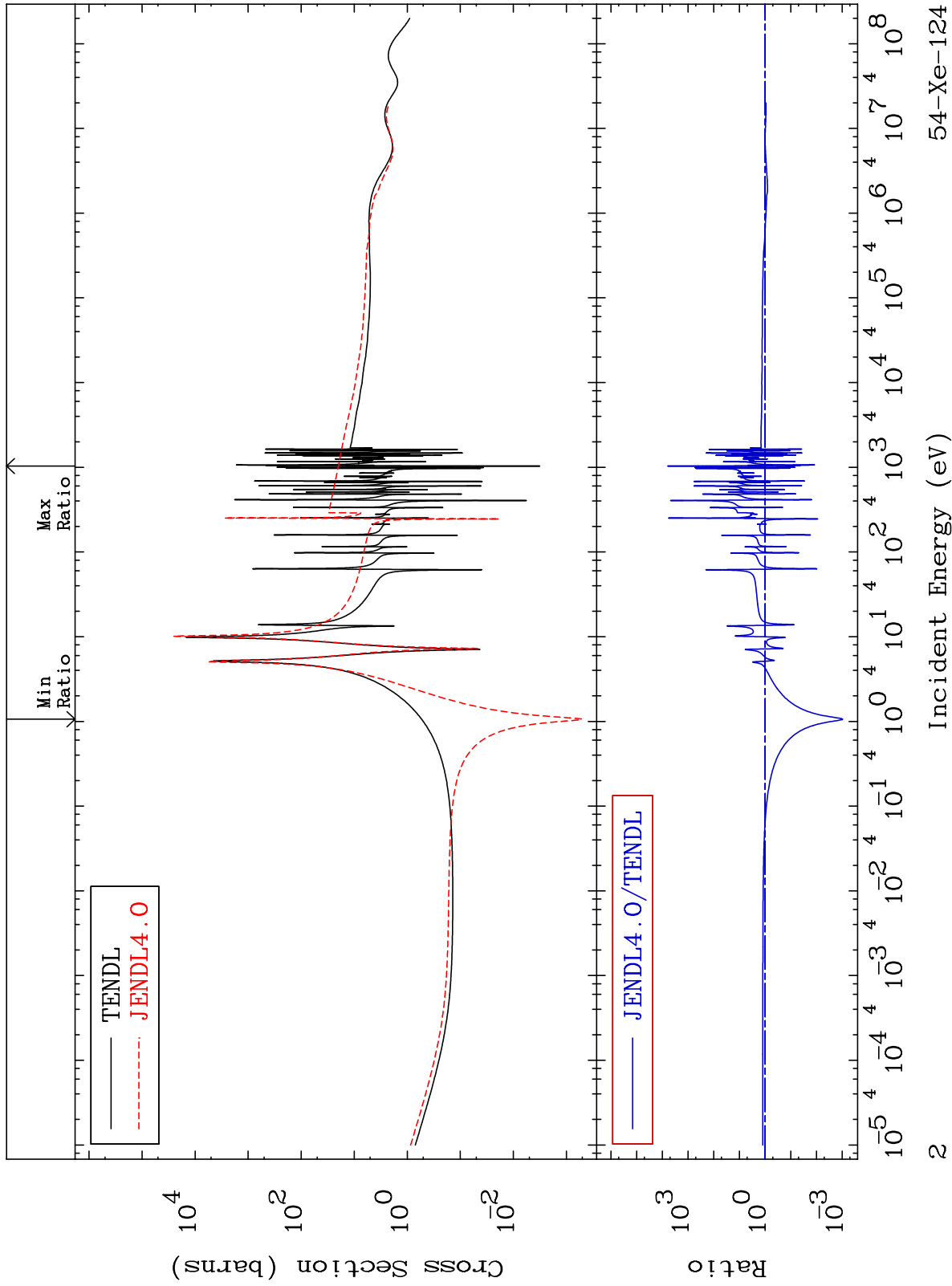
-99.78 To 9999. %



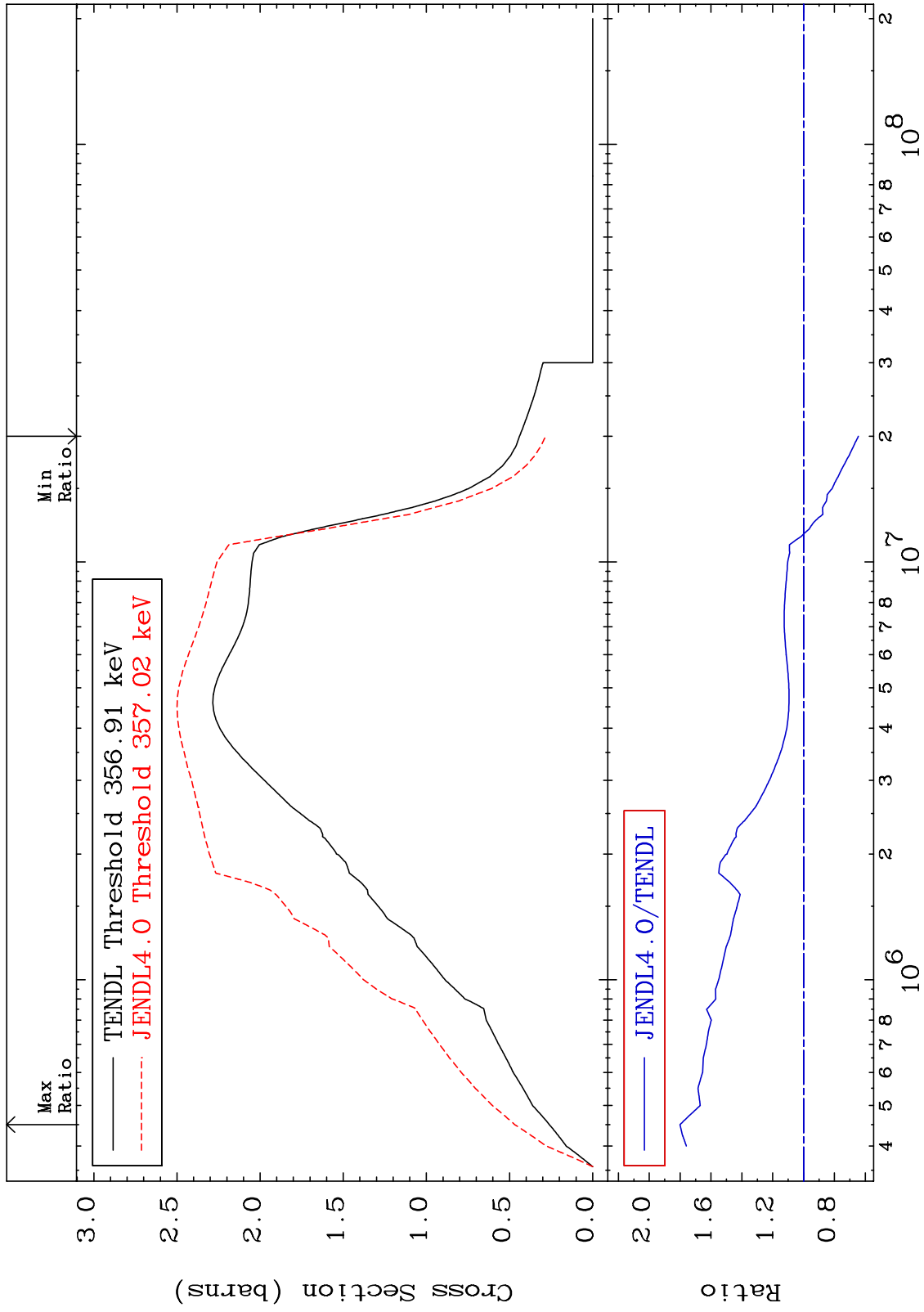
54-Xe-124

MAT 5425

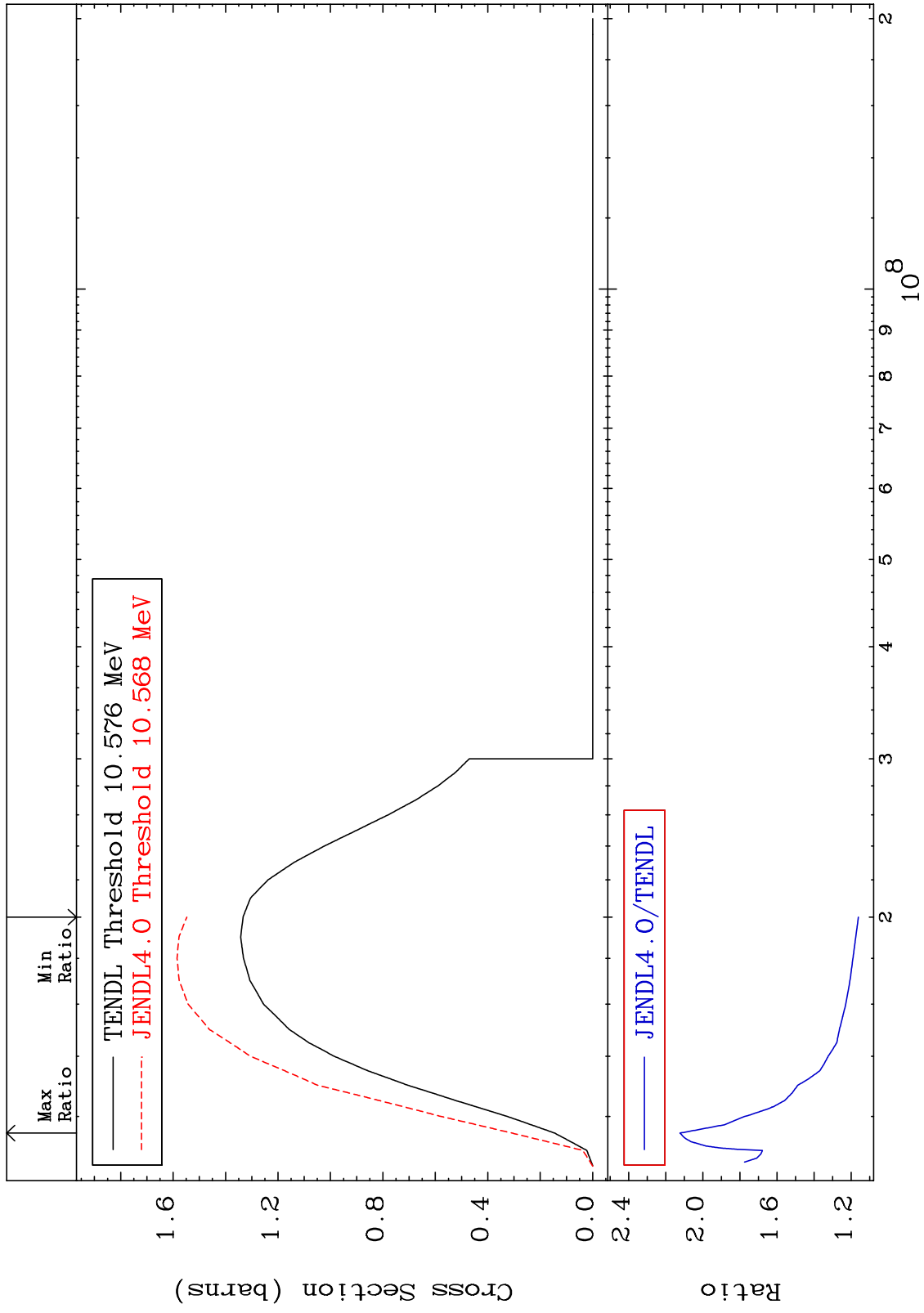
Elastic Cross Section
54-Xe-124
-99.90 To 9999. %



MAT 5425 Inelastic Cross Section 54-Xe-124 -35.54 To 80.07 %



MAT 5425 (n,2n) Cross Section 54-Xe-124 To 112.3 %
 16.10



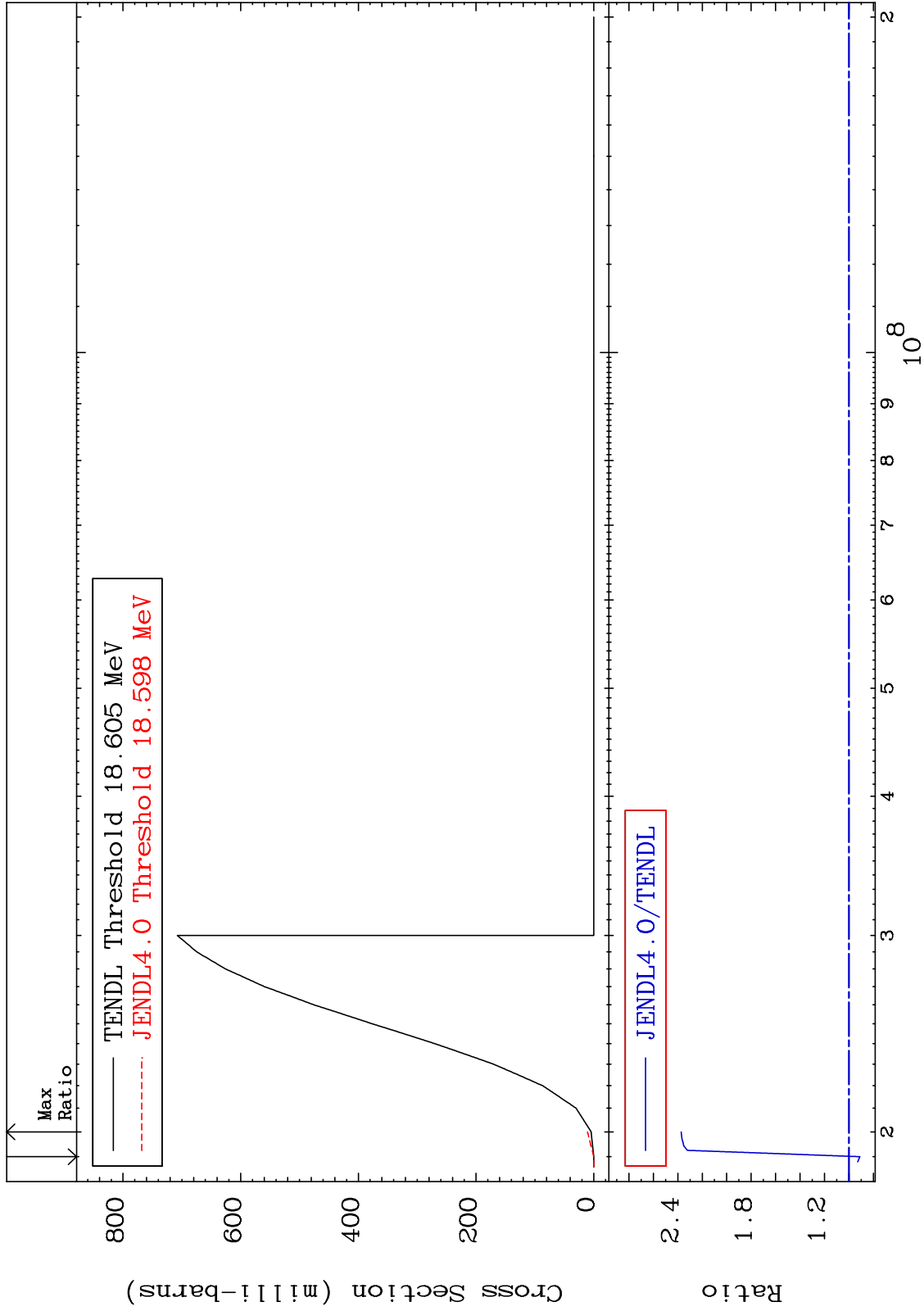
MAT 5425

(n,3n)

54-Xe-124

Cross Section

-9.015 To 137.2 %



5

Incident Energy (eV)

54-Xe-124

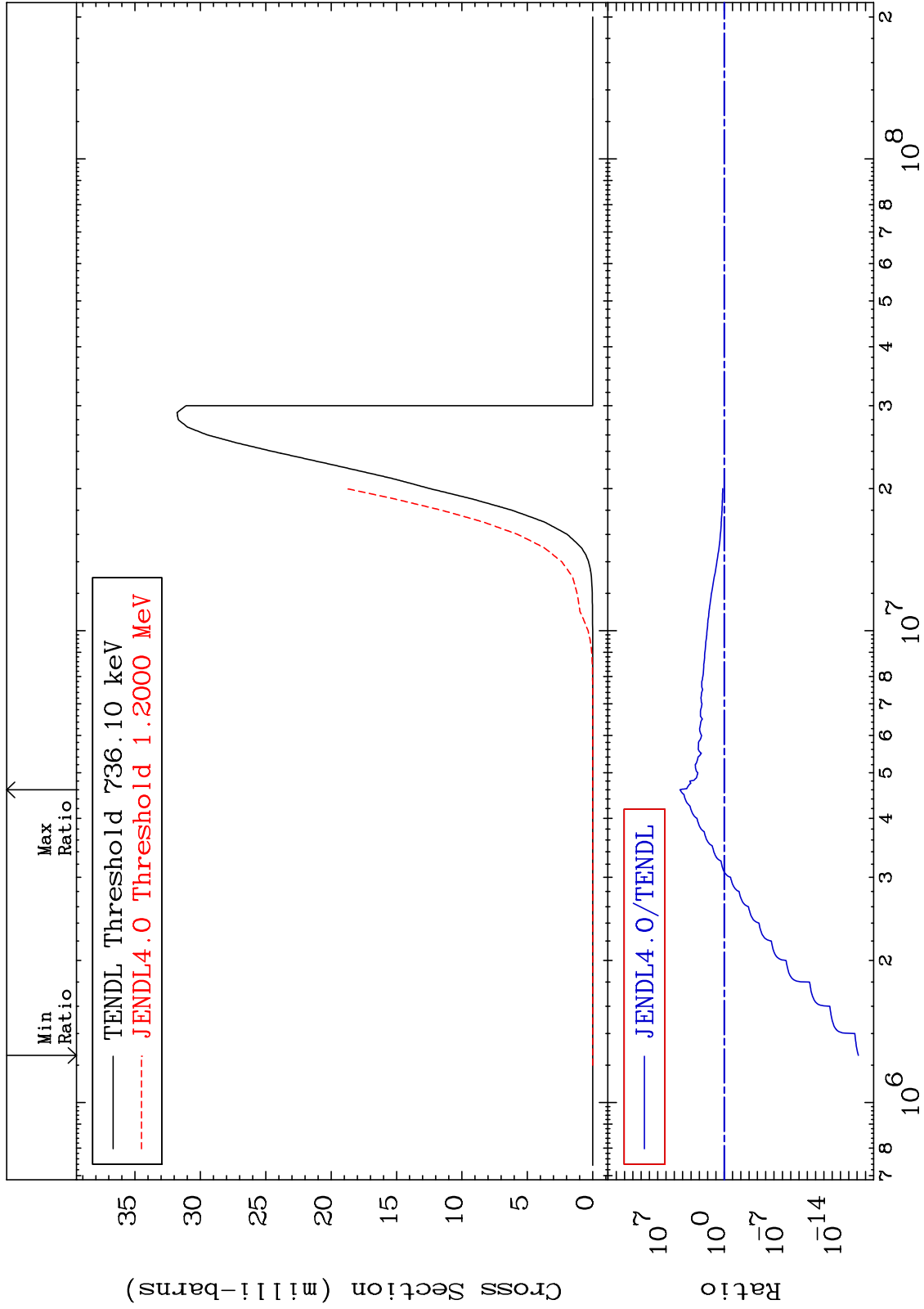
MAT 5425

(n, n') α

54-Xe-124

-100.0 To 9999. %

Cross Section



6

Incident Energy (eV)

54-Xe-124

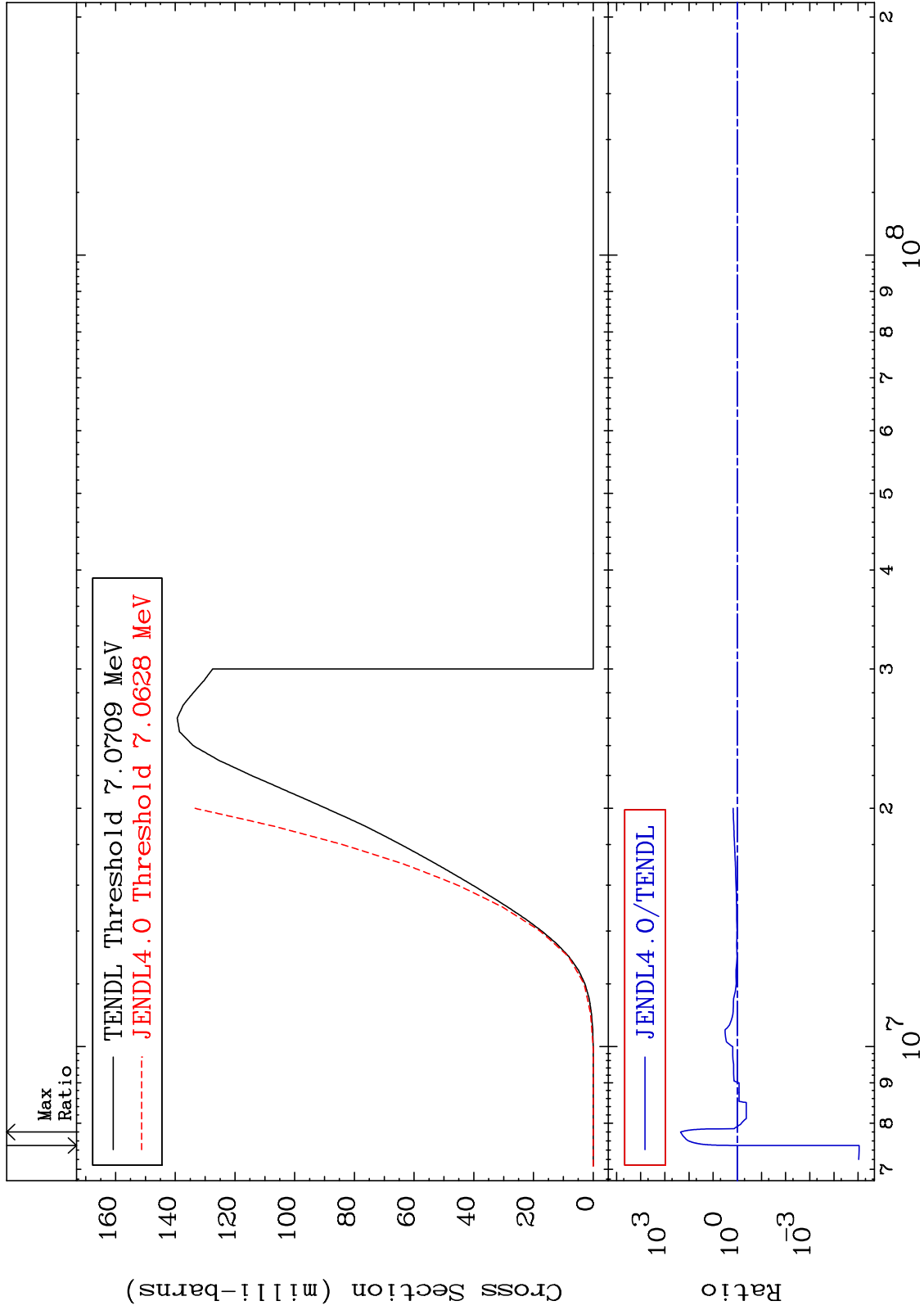
MAT 5425

(n,n') p

54-Xe-124

Cross Section

-100.0 To 9999. %



Incident Energy (eV)

54-Xe-124

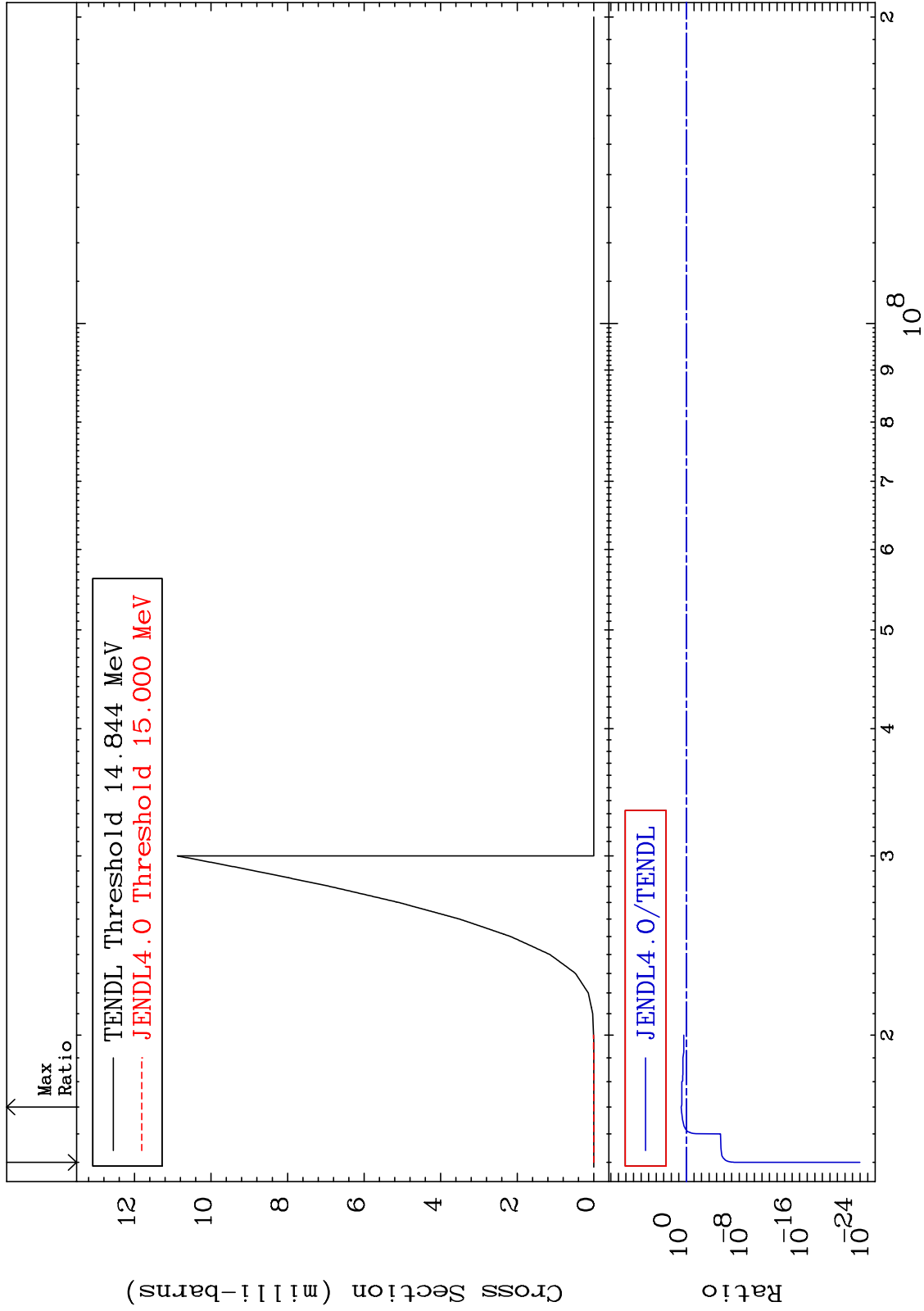
MAT 5425

(n, n') d

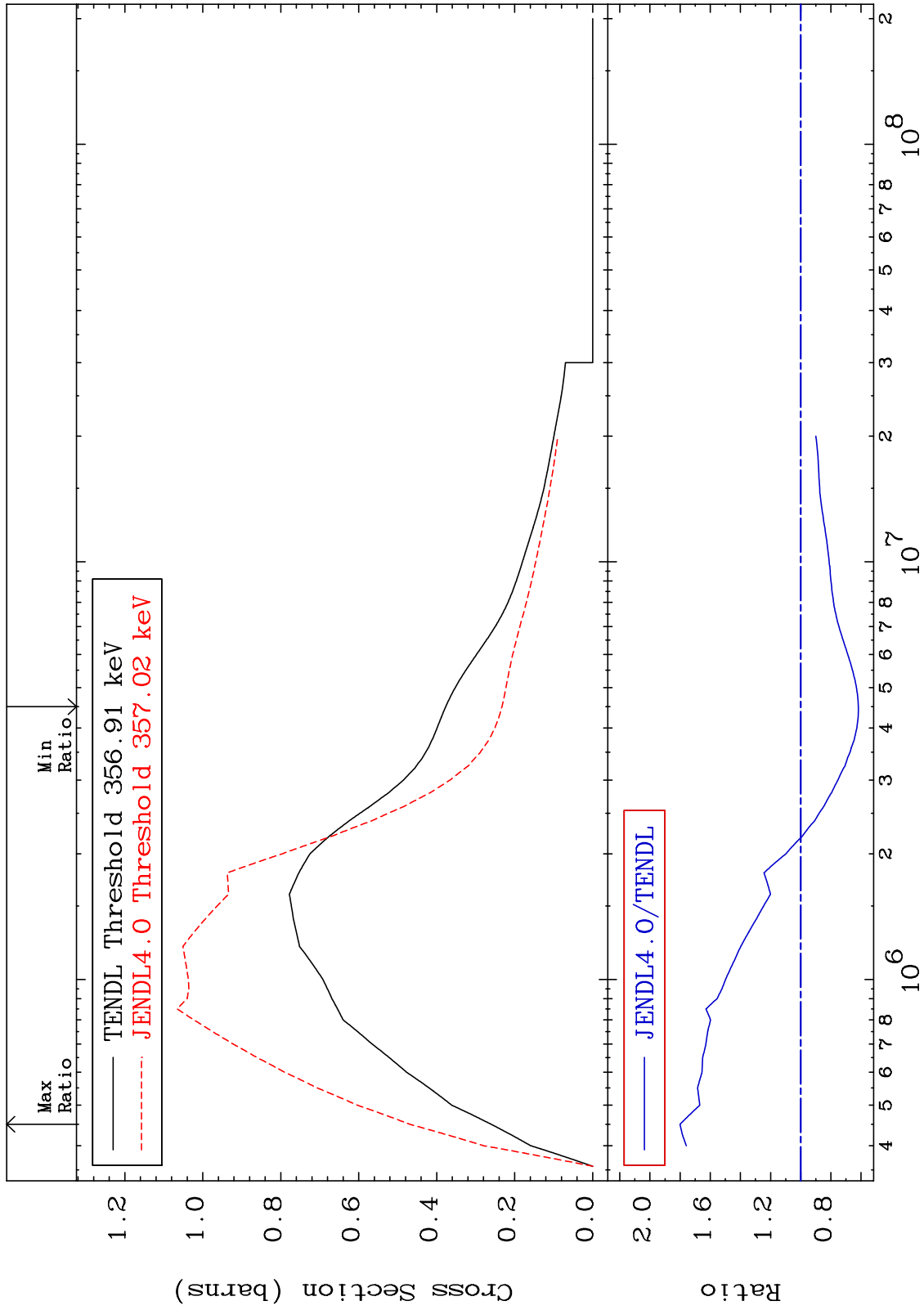
54-Xe-124

Cross Section

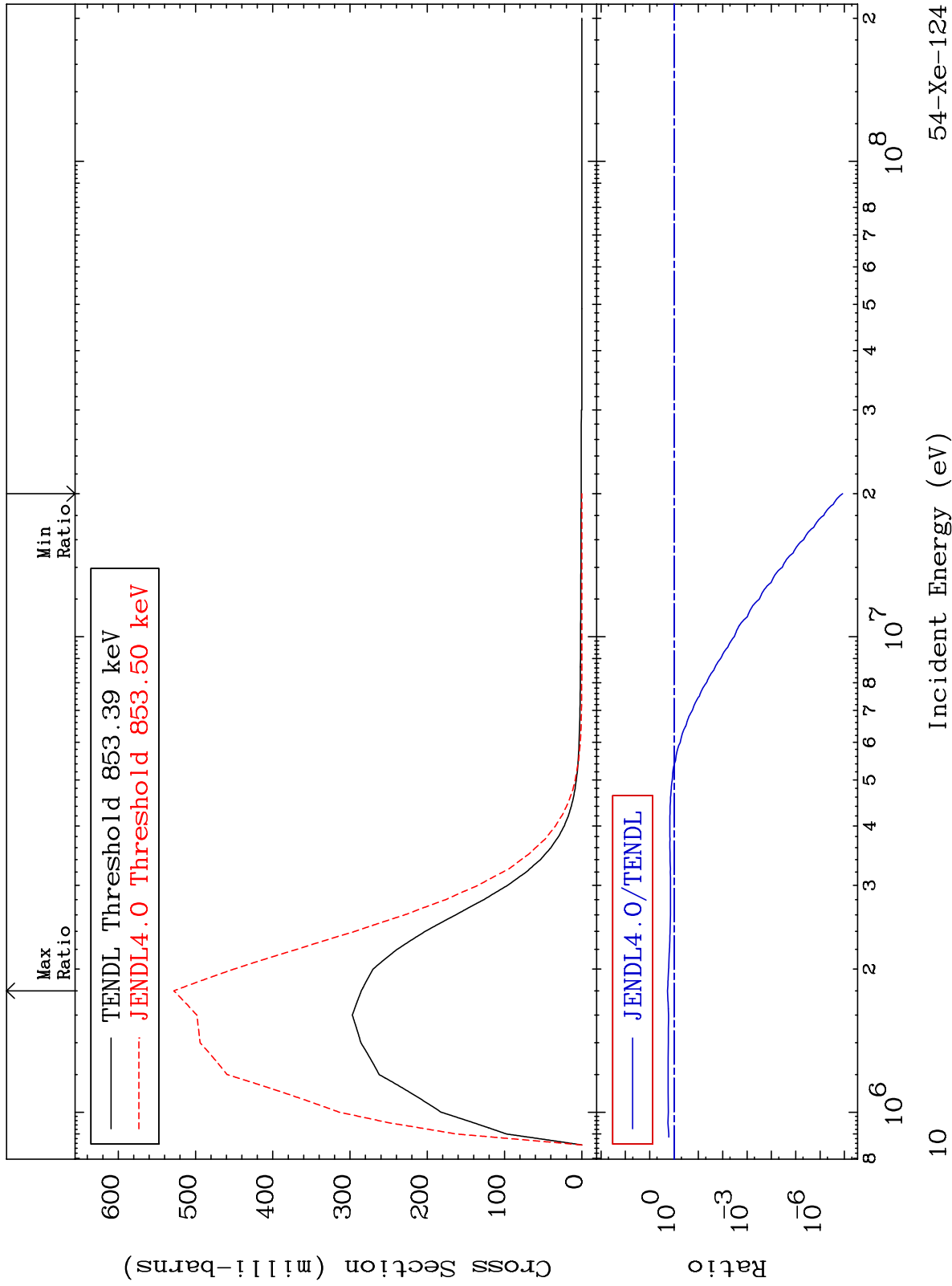
-100.0 To 383.3 %



MAT 5425 MT= 51 (n,n') Level 54-Xe-124
 Cross Section -38.23 To 80.07 %



MAT 5425 MT= 52 (n,n') Level Cross Section 54-Xe-124 -100.0 To 85.07 %

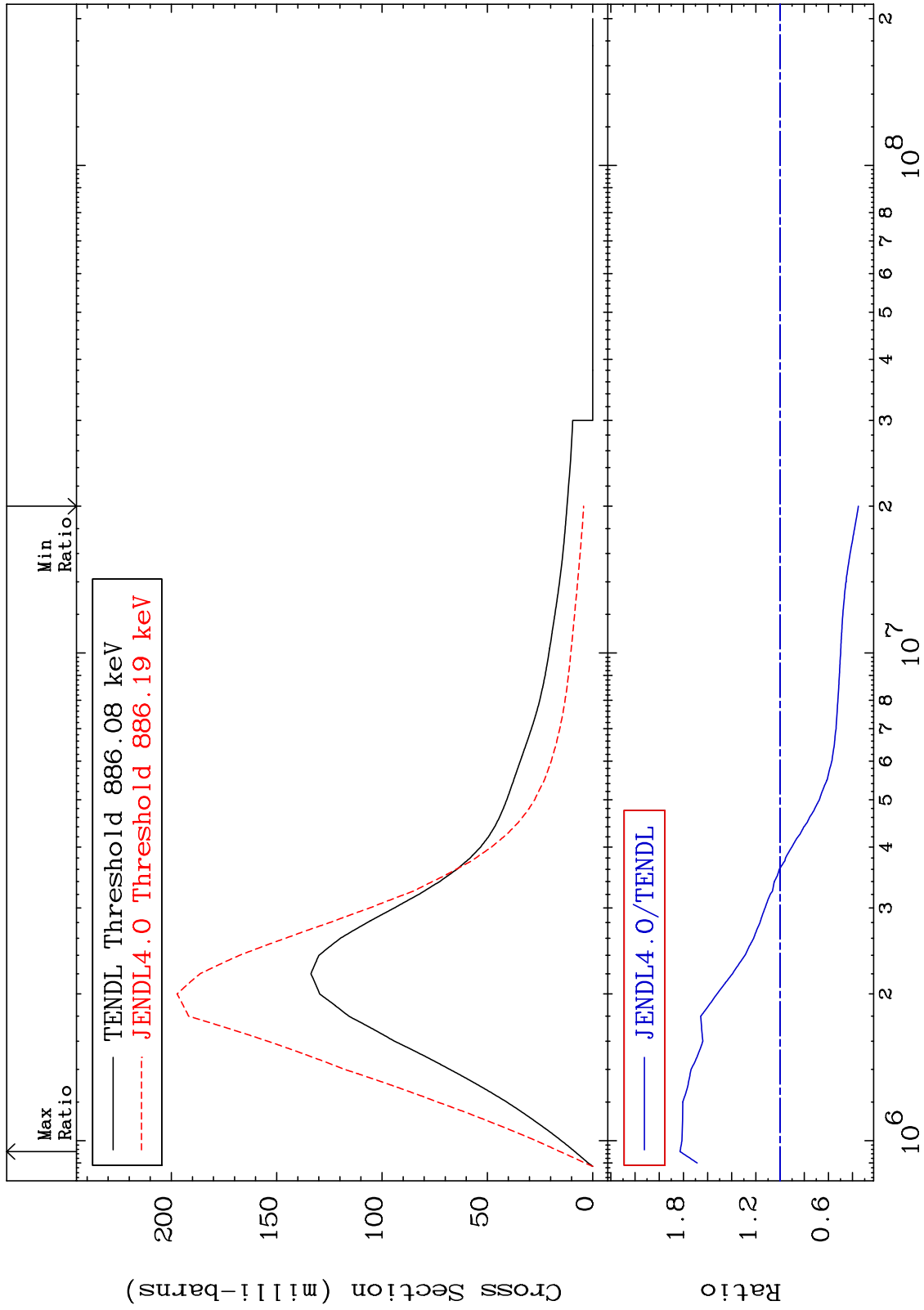


54-Xe-124

MAT 5425

MT= 53 (n,n') Level
Cross Section

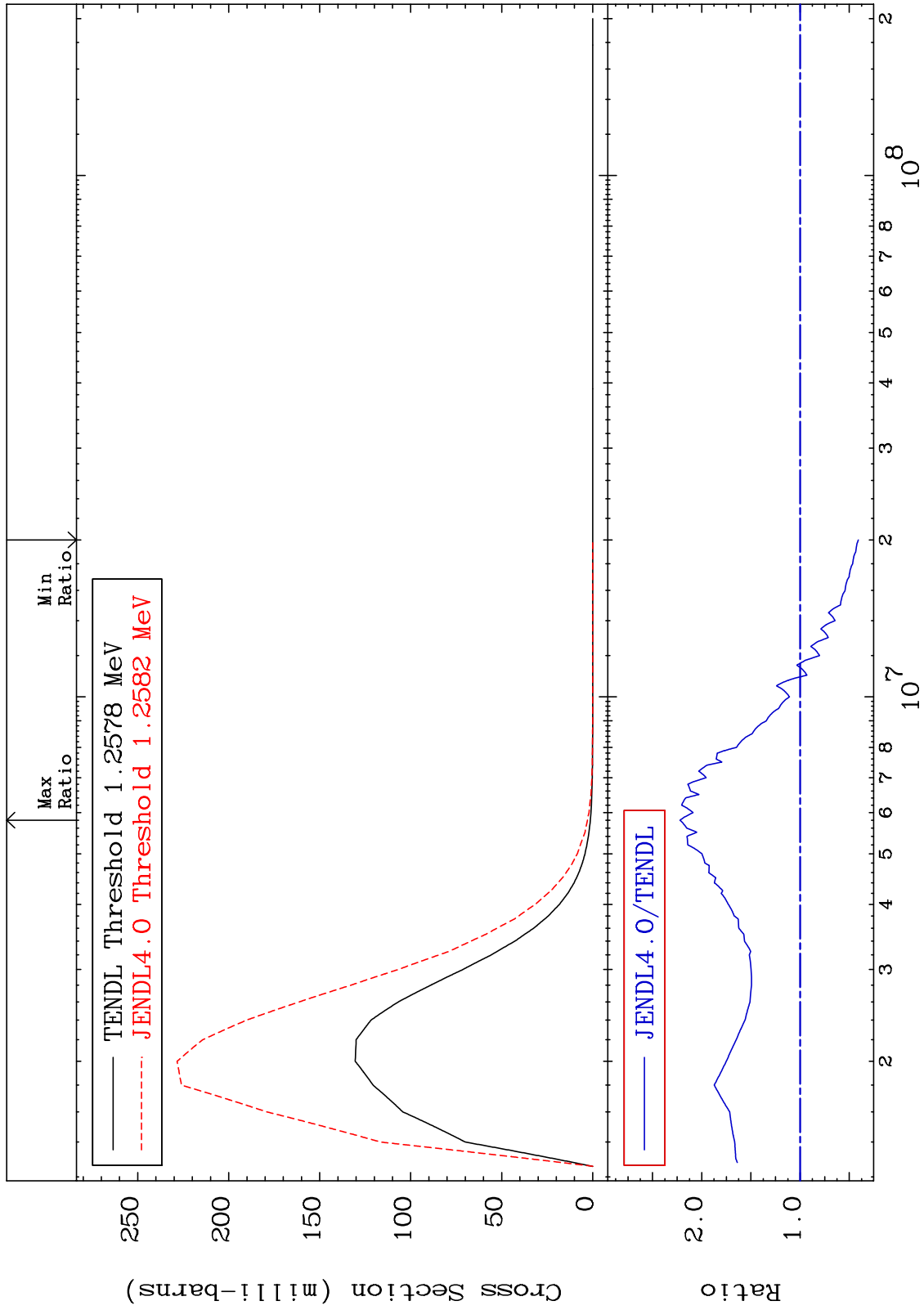
54-Xe-124
-64.85 To 82.78 %



MAT 5425

MT= 54 (n,n') Level
Cross Section

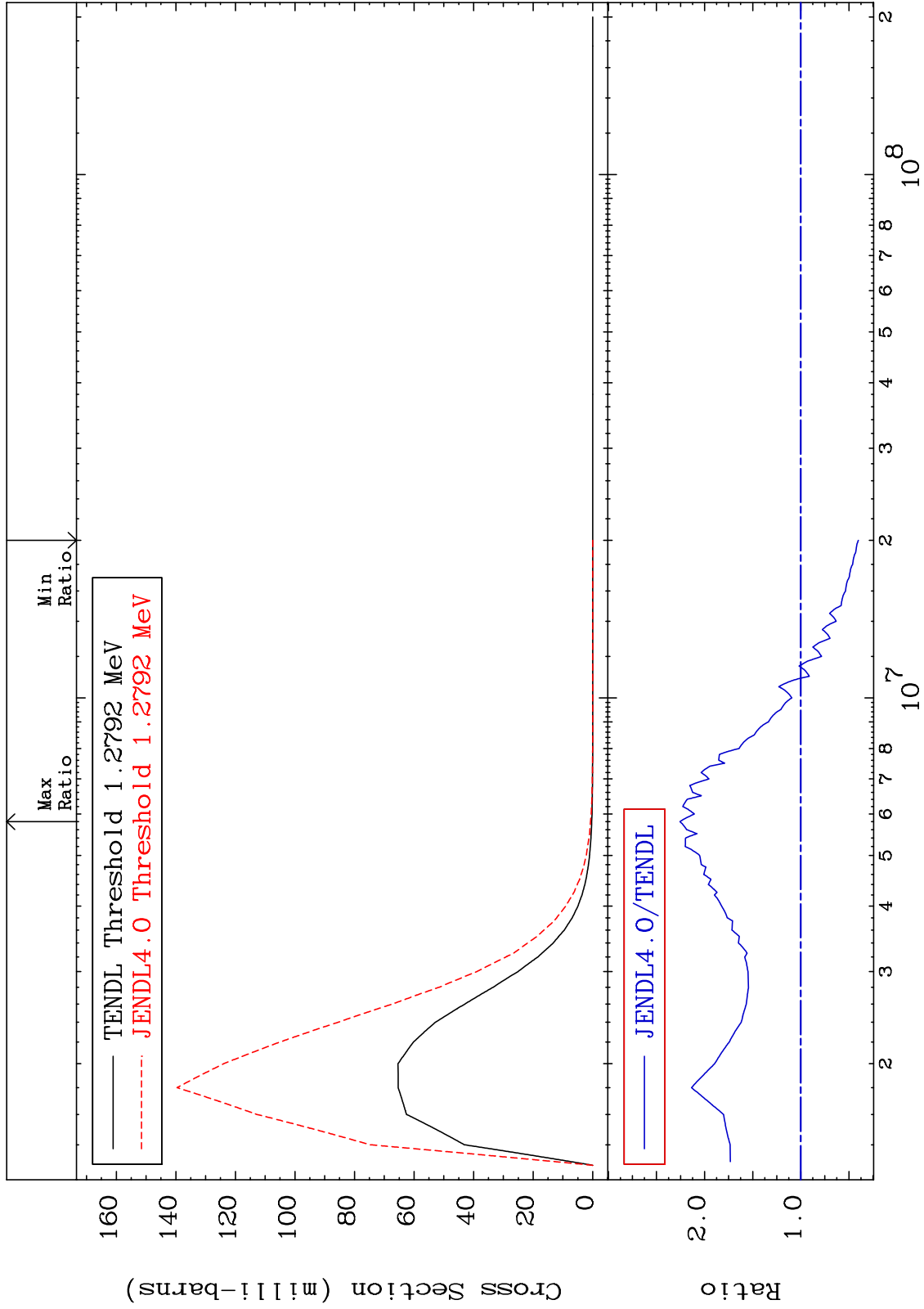
54-Xe-124
-59.27 To 122.1 %



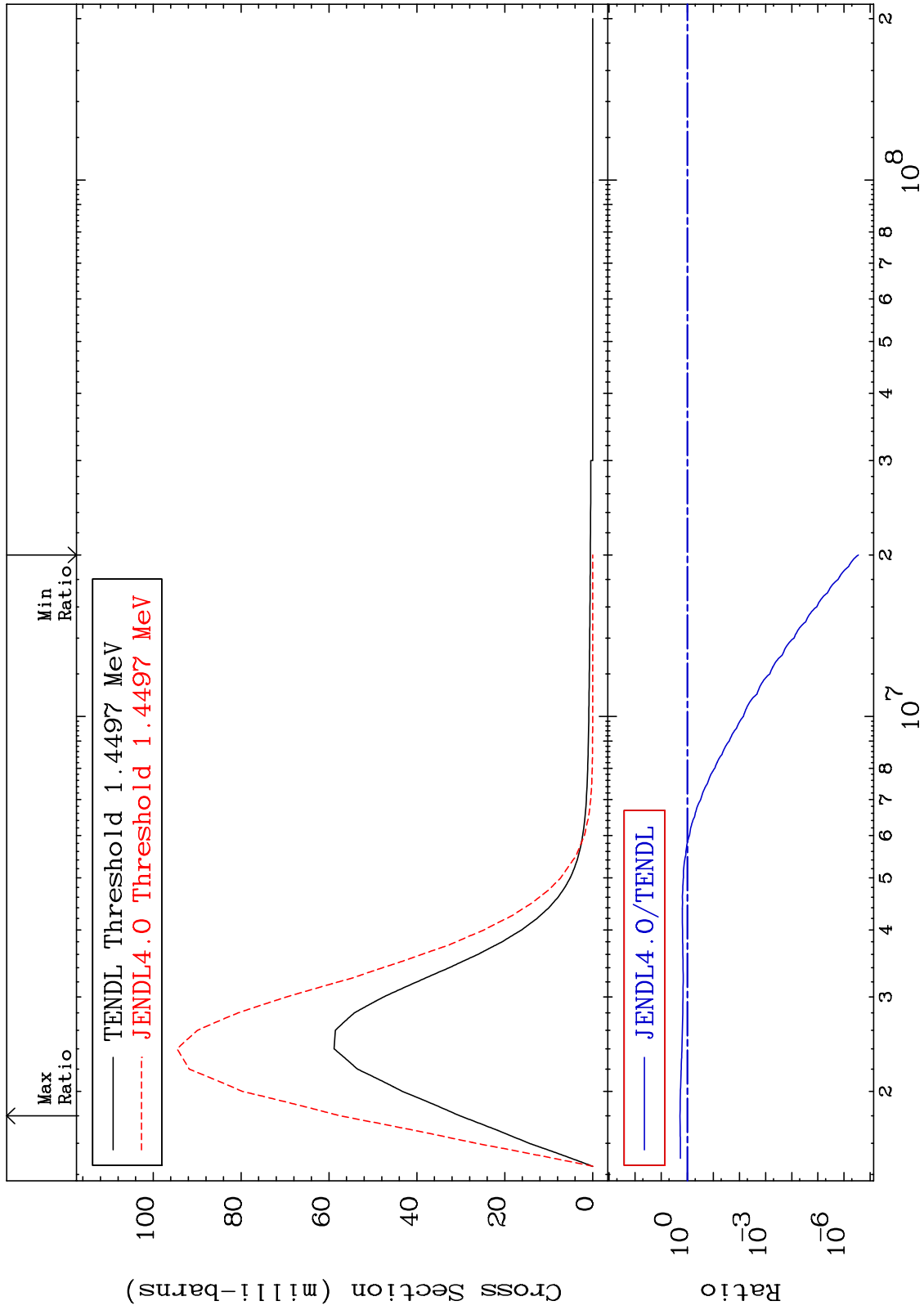
MAT 5425

MT= 55 (n,n') Level
Cross Section

54-Xe-124
-59.90 To 125.6 %



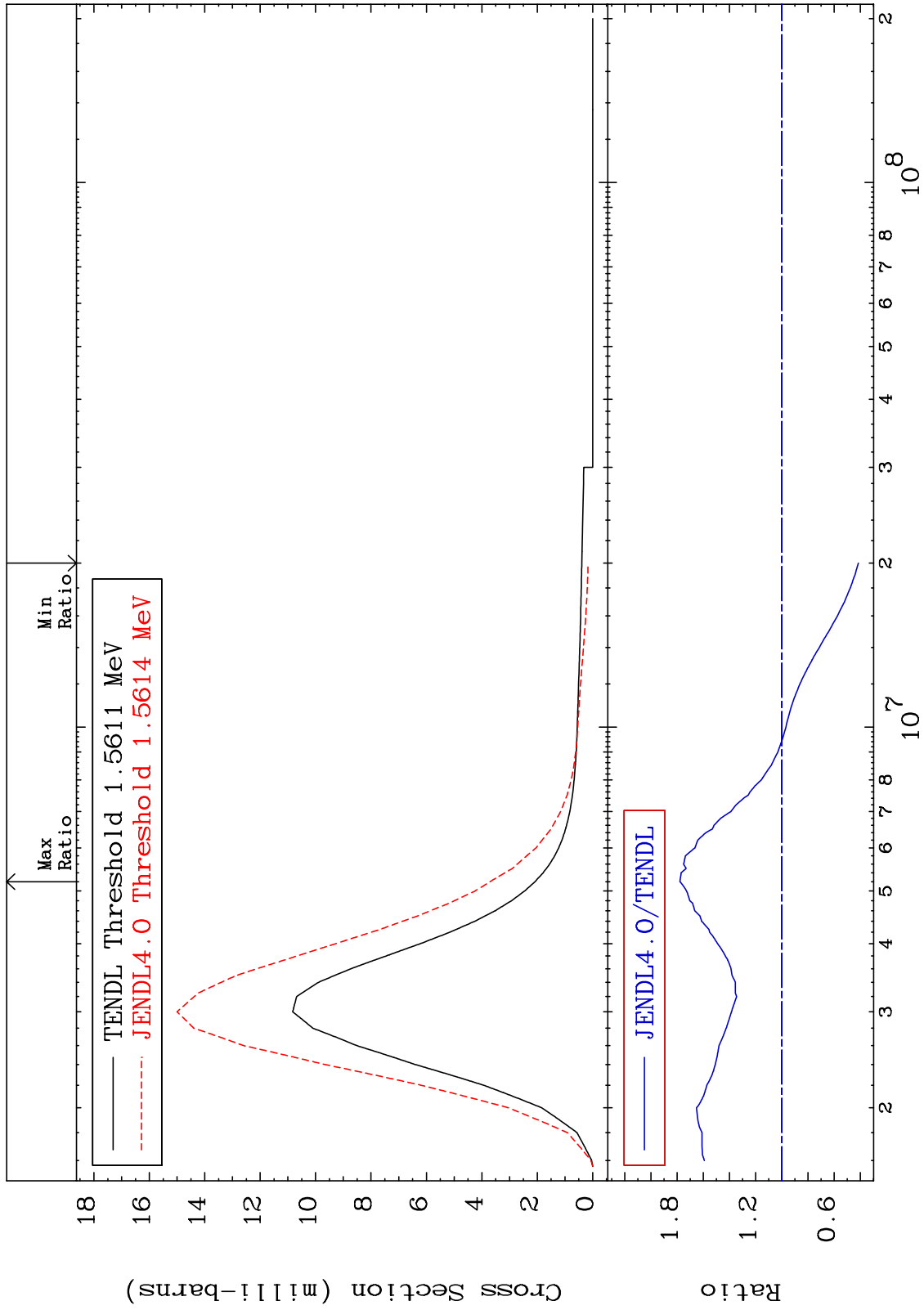
MAT 5425 MT= 56 (n,n') Level Cross Section 54-Xe-124 -100.0 To 90.14 %



MAT 5425

MT= 57 (n, n') Level
Cross Section

54-Xe-124
-58.49 To 77.84 %



15

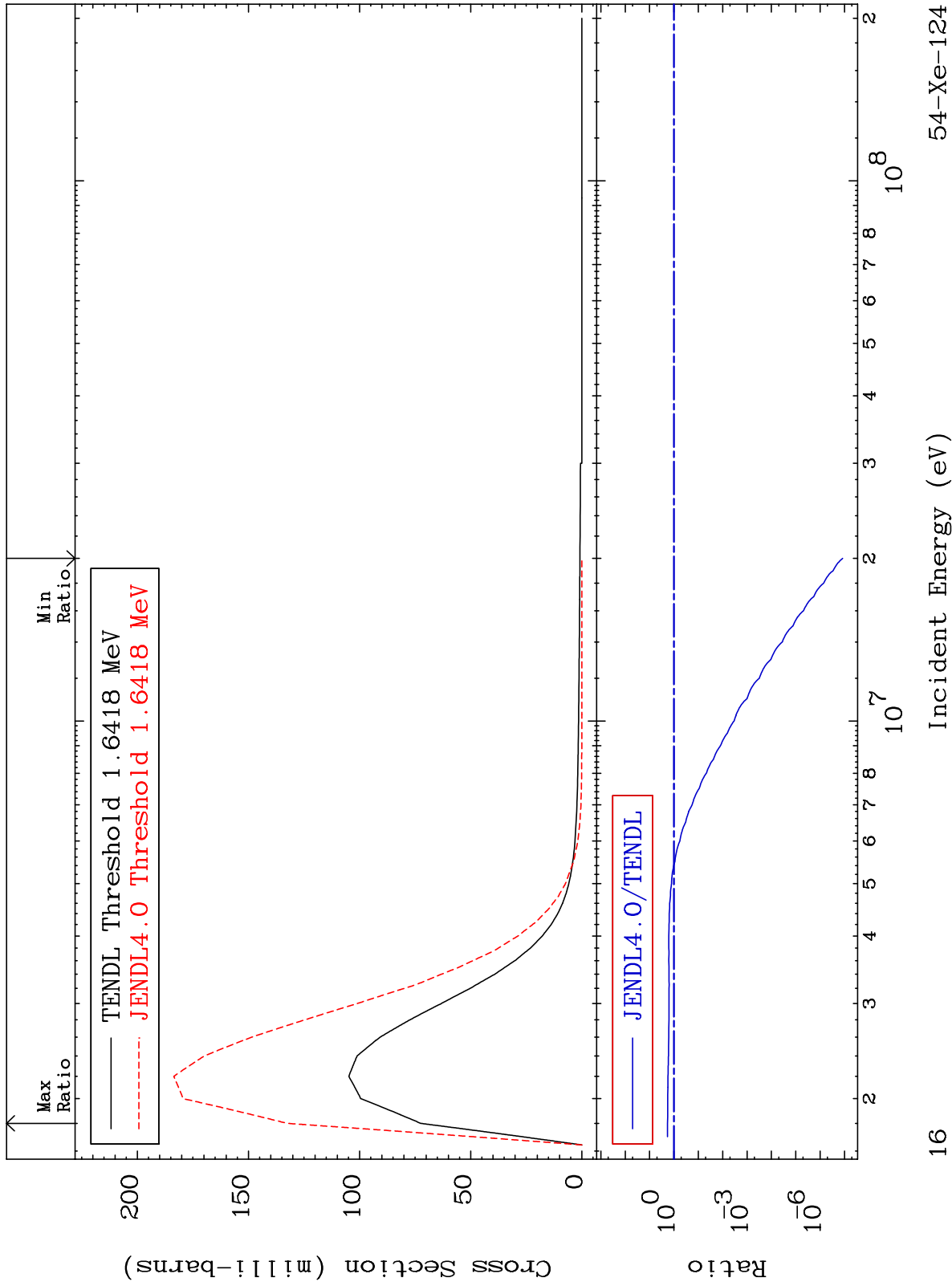
Incident Energy (eV)

54-Xe-124

MAT 5425

MT= 58 (n,n') Level
Cross Section

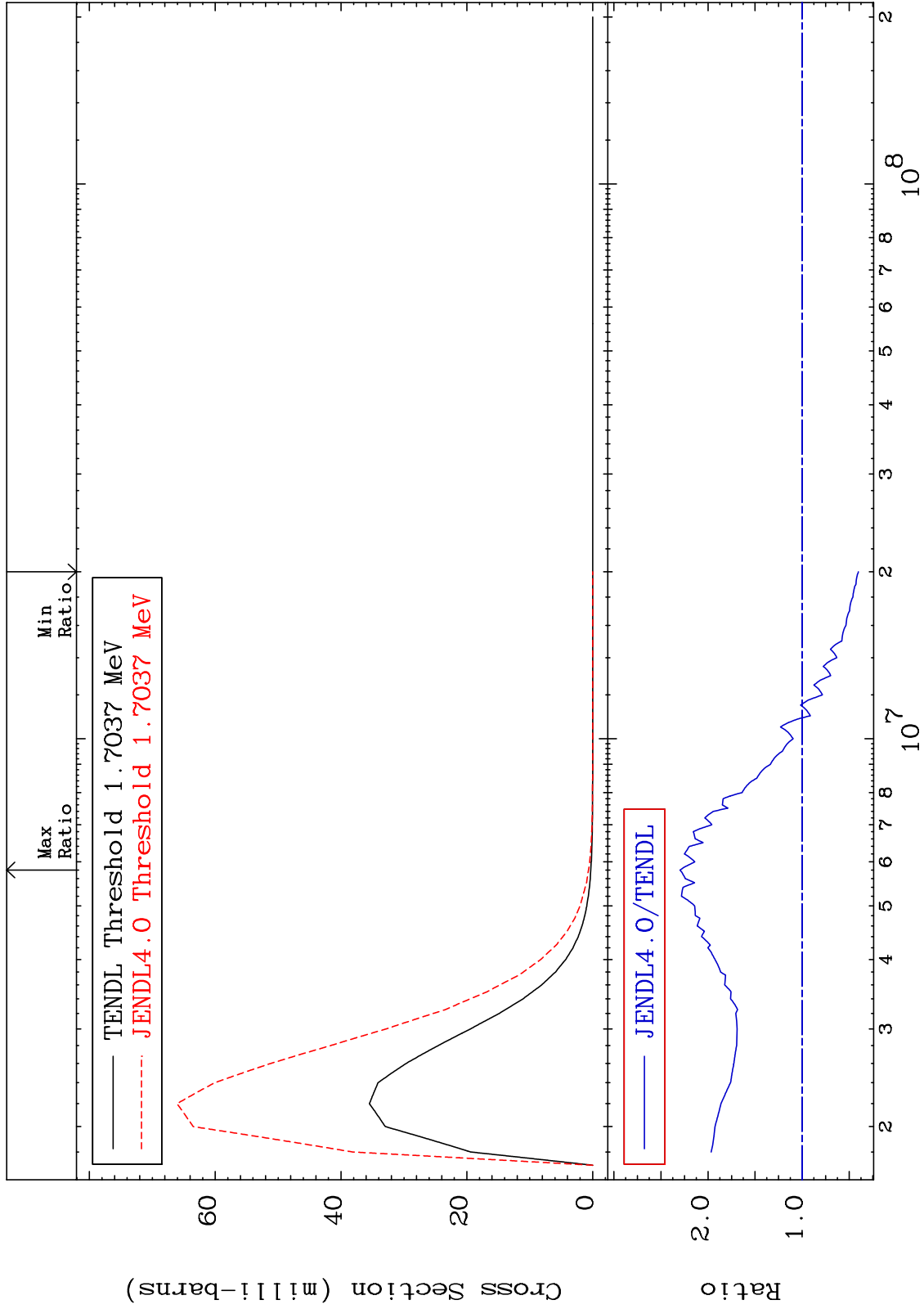
54-Xe-124
-100.0 To 82.88 %



MAT 5425

MT= 59 (n,n') Level
Cross Section

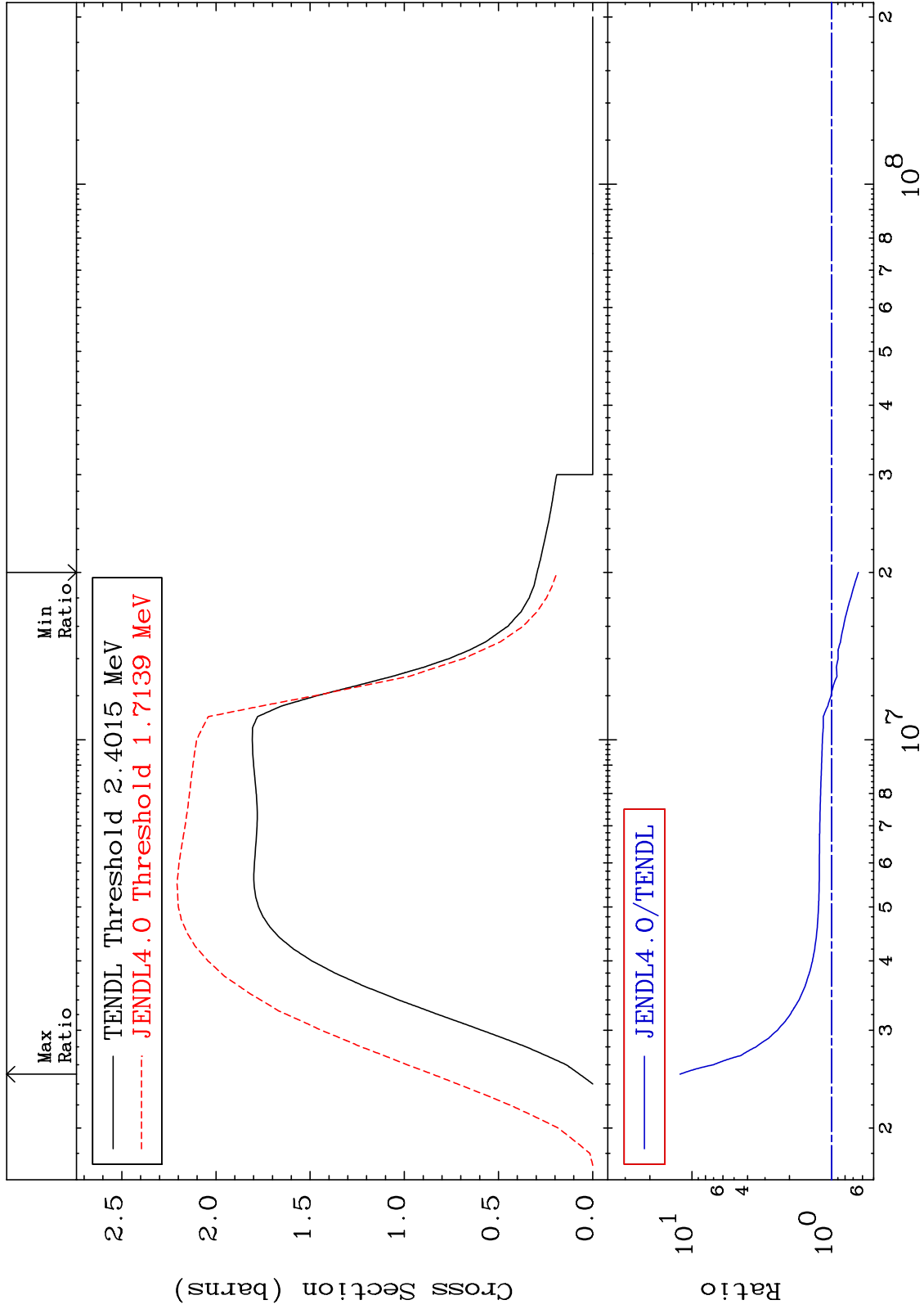
54-Xe-124
-59.84 To 129.7 %



MAT 5425

(n,n') Continuum
Cross Section

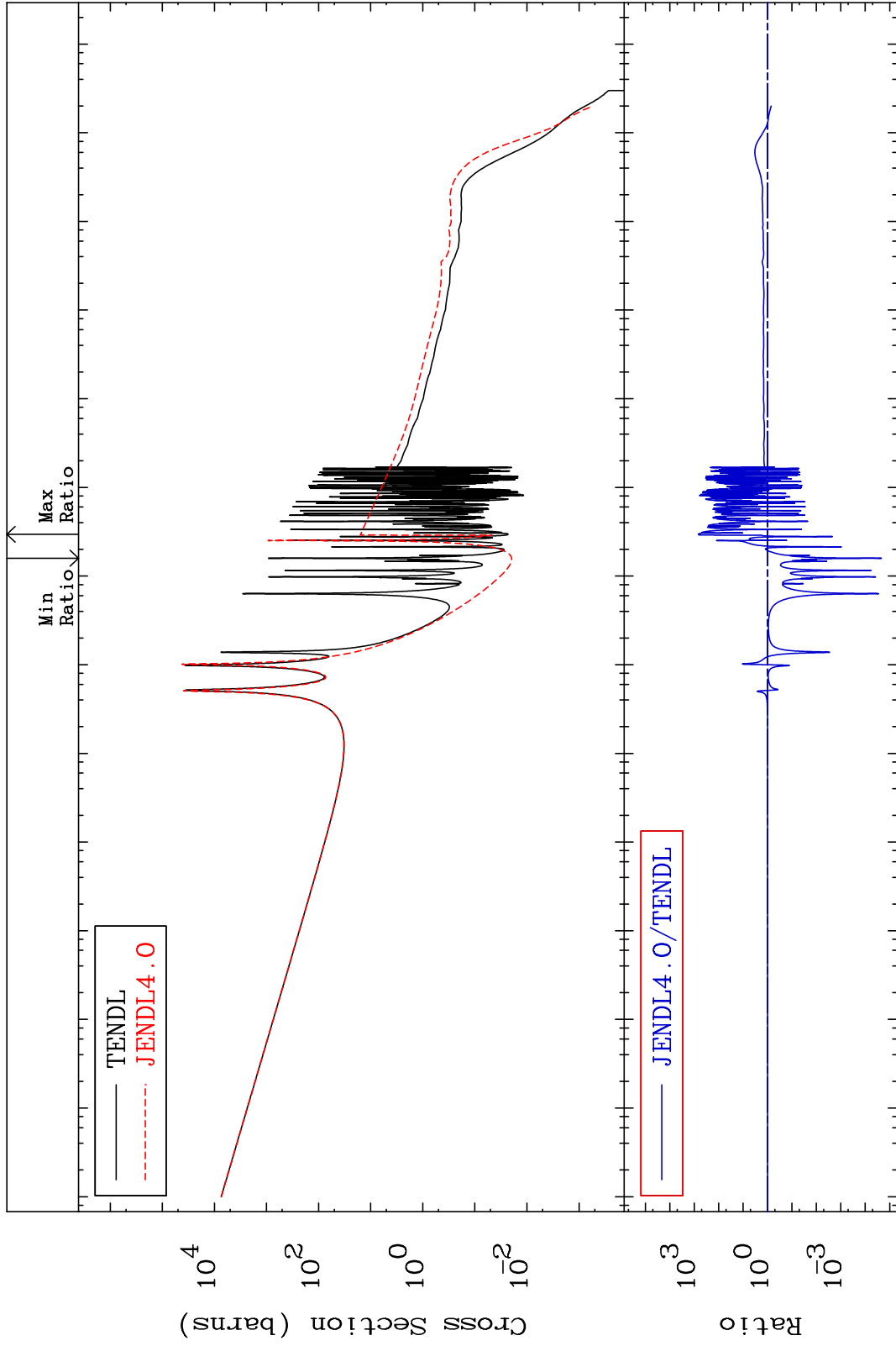
54-Xe-124
-35.79 To 1117. %



MAT 5425

(n, γ)
Cross Section

54-Xe-124
-100.0 To 9999. %



MAT 5425

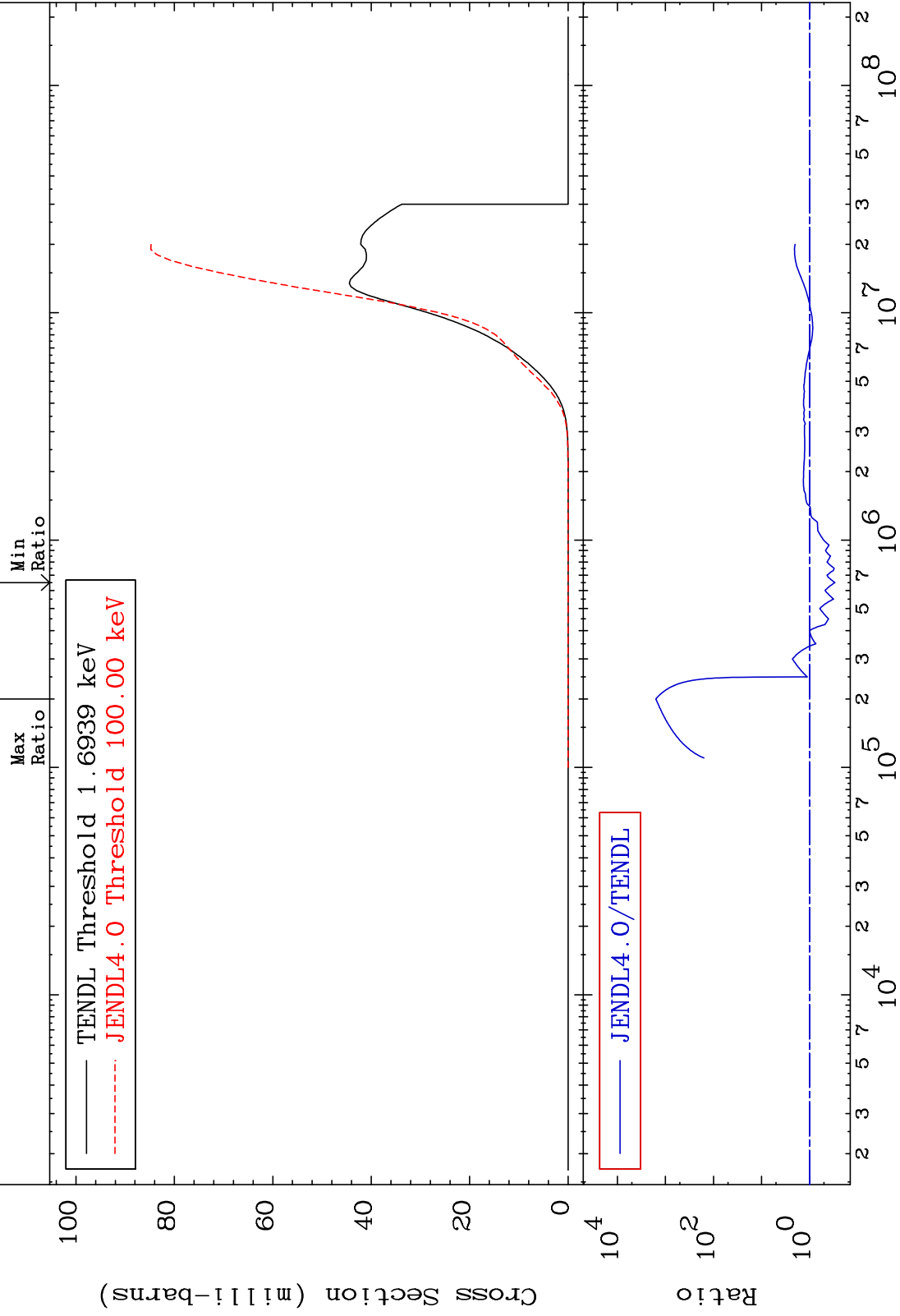
54-Xe-124

(n, p)
-70.49 To 9999. %

Cross Section

(n, p)

Cross Section

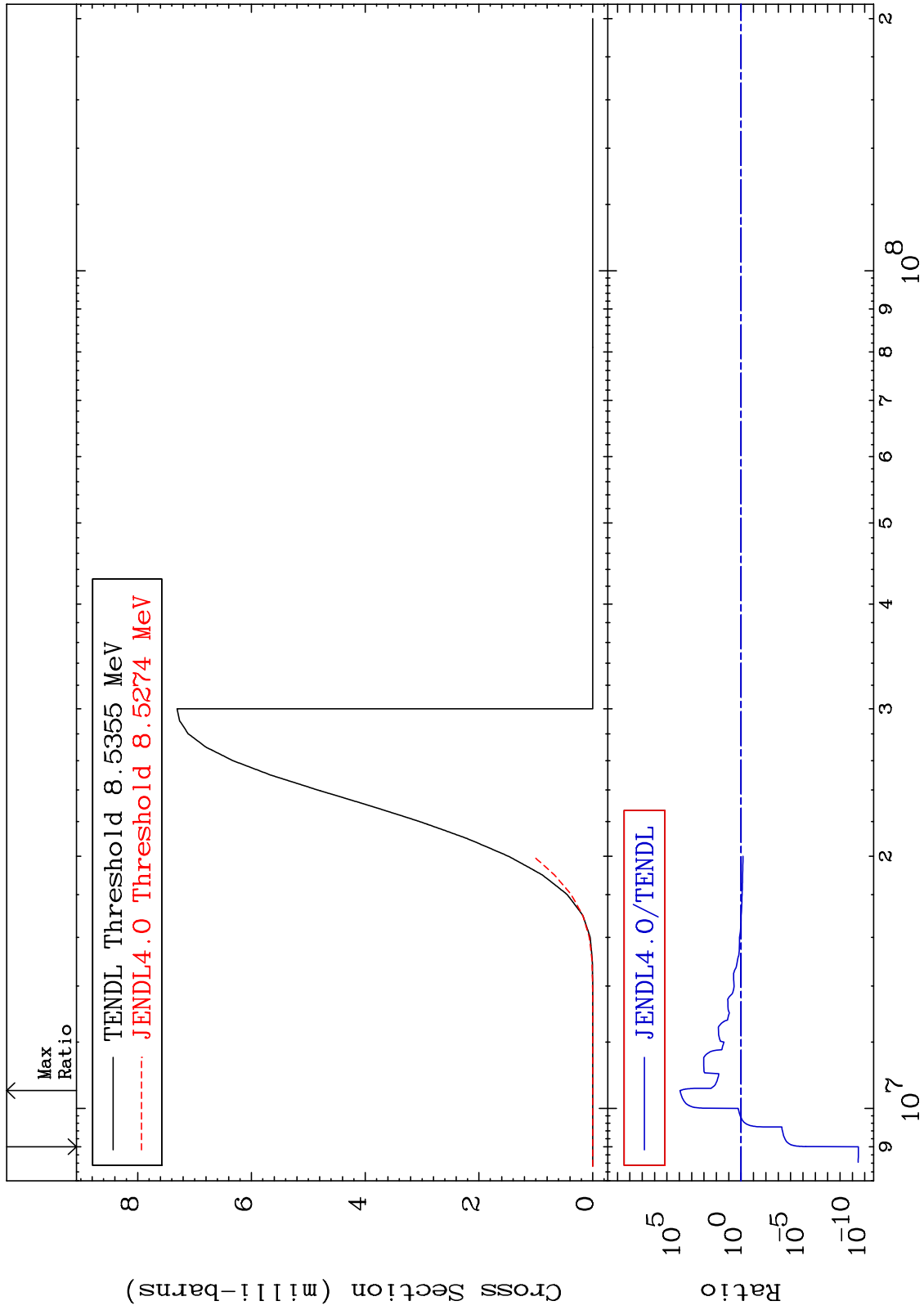


54-Xe-124

Incident Energy (eV)

20

MAT 5425 (n, t) Cross Section 54-Xe-124 -100.0 To 9999. %



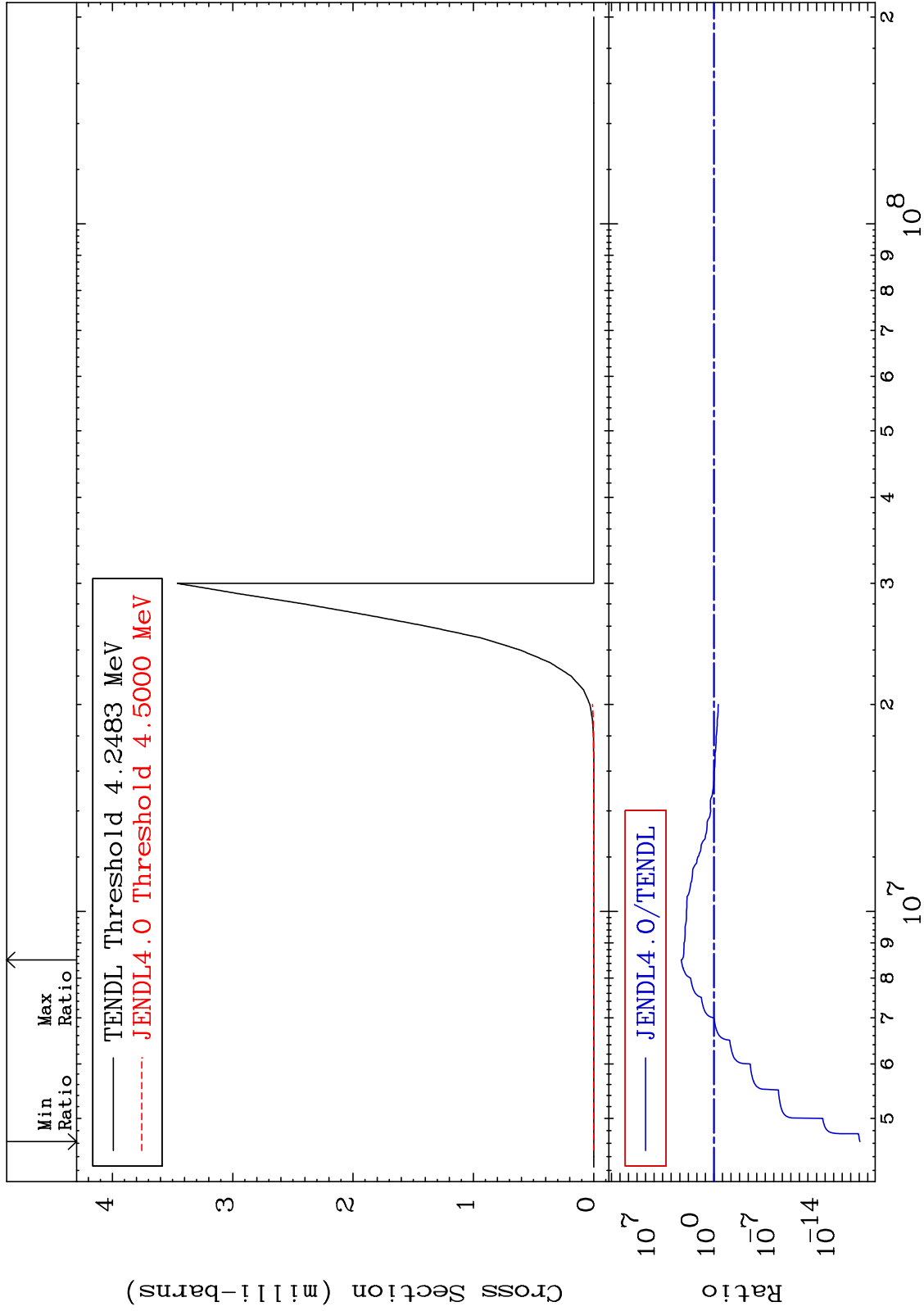
MAT 5425

(n, He-3)

54-Xe-124

Cross Section

-100.0 To 9999. %



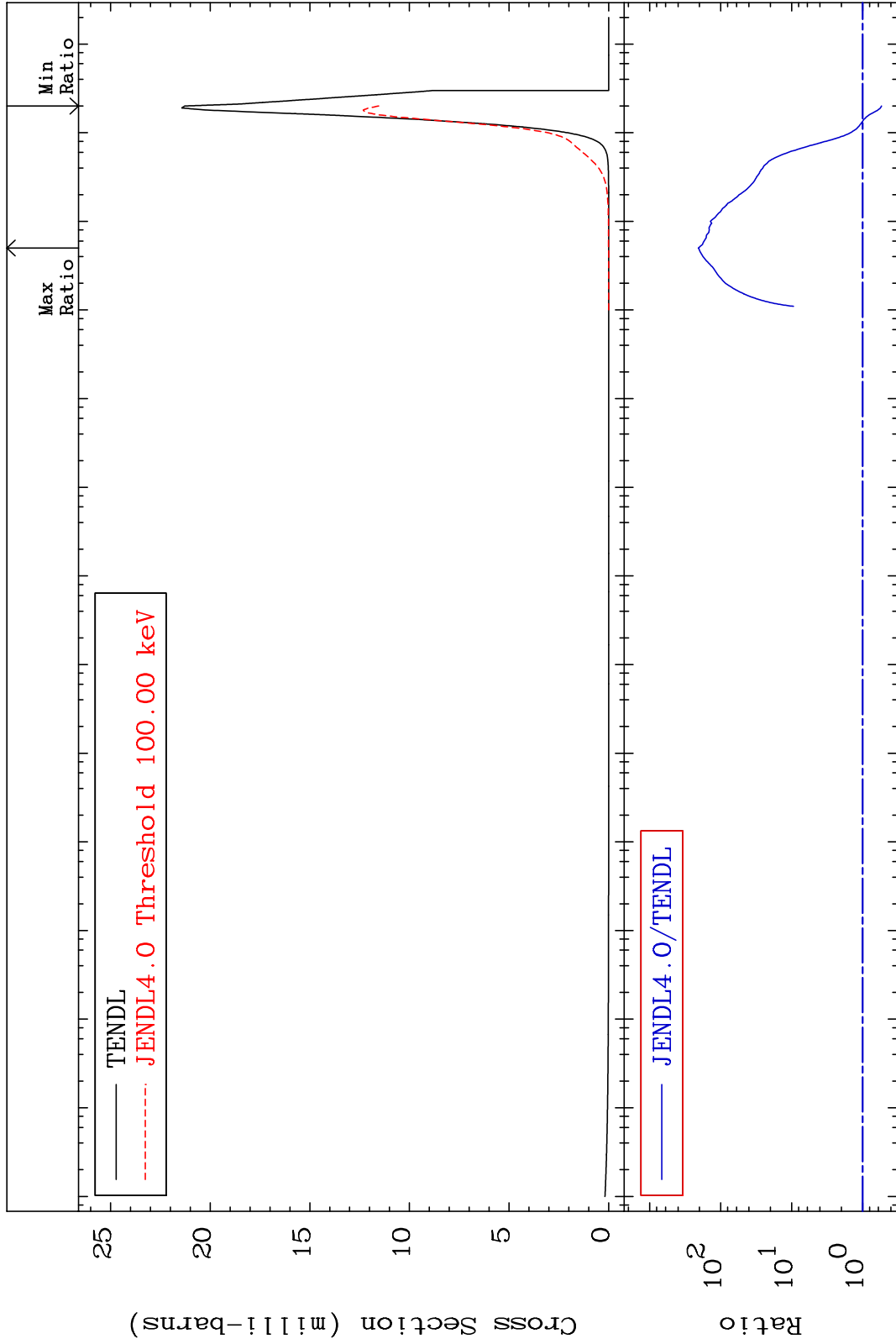
MAT 5425

(n, α)

54-Xe-124

Cross Section

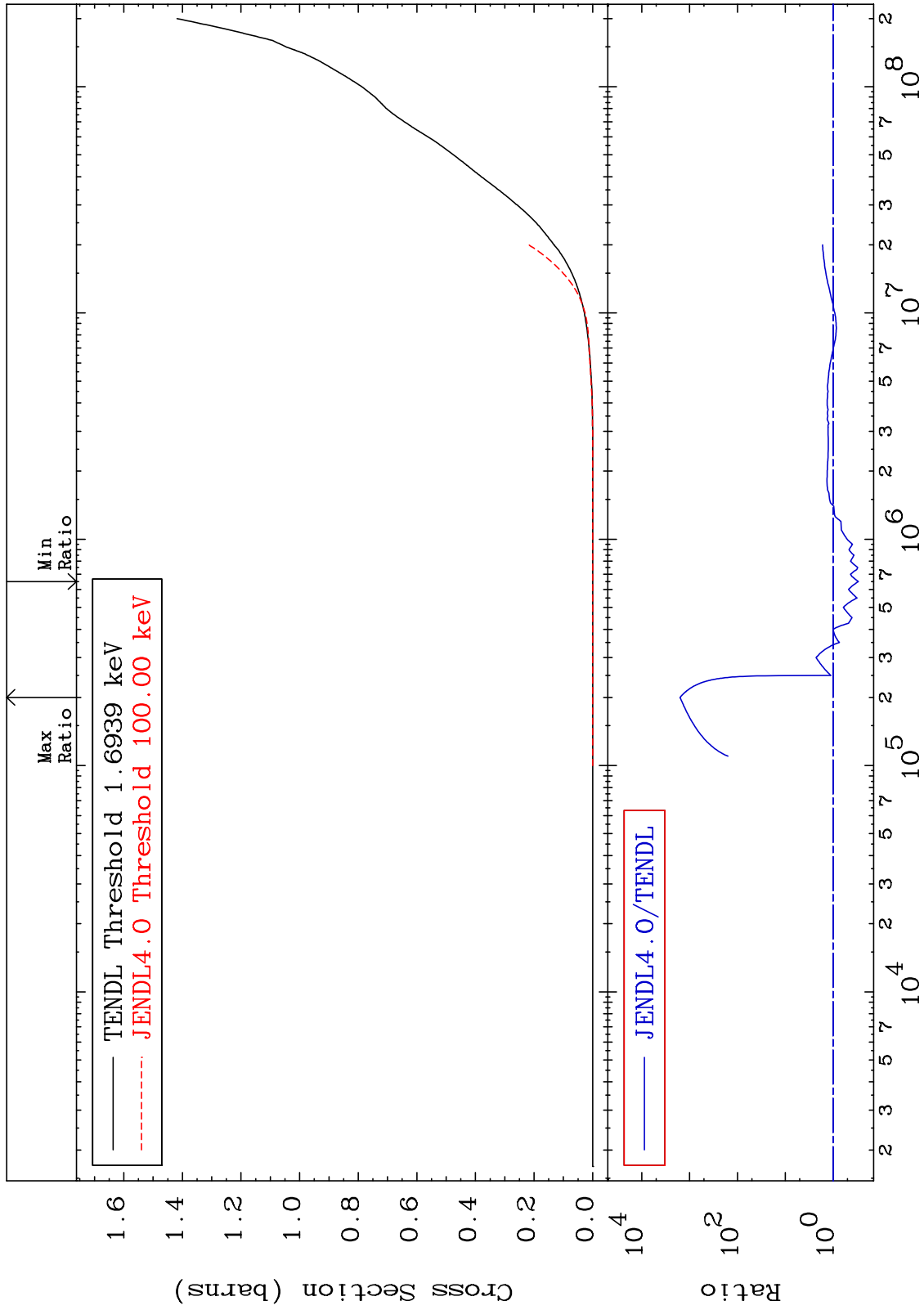
-45.83 To 9999. %



MAT 5425

Hydrogen Production
Cross Section

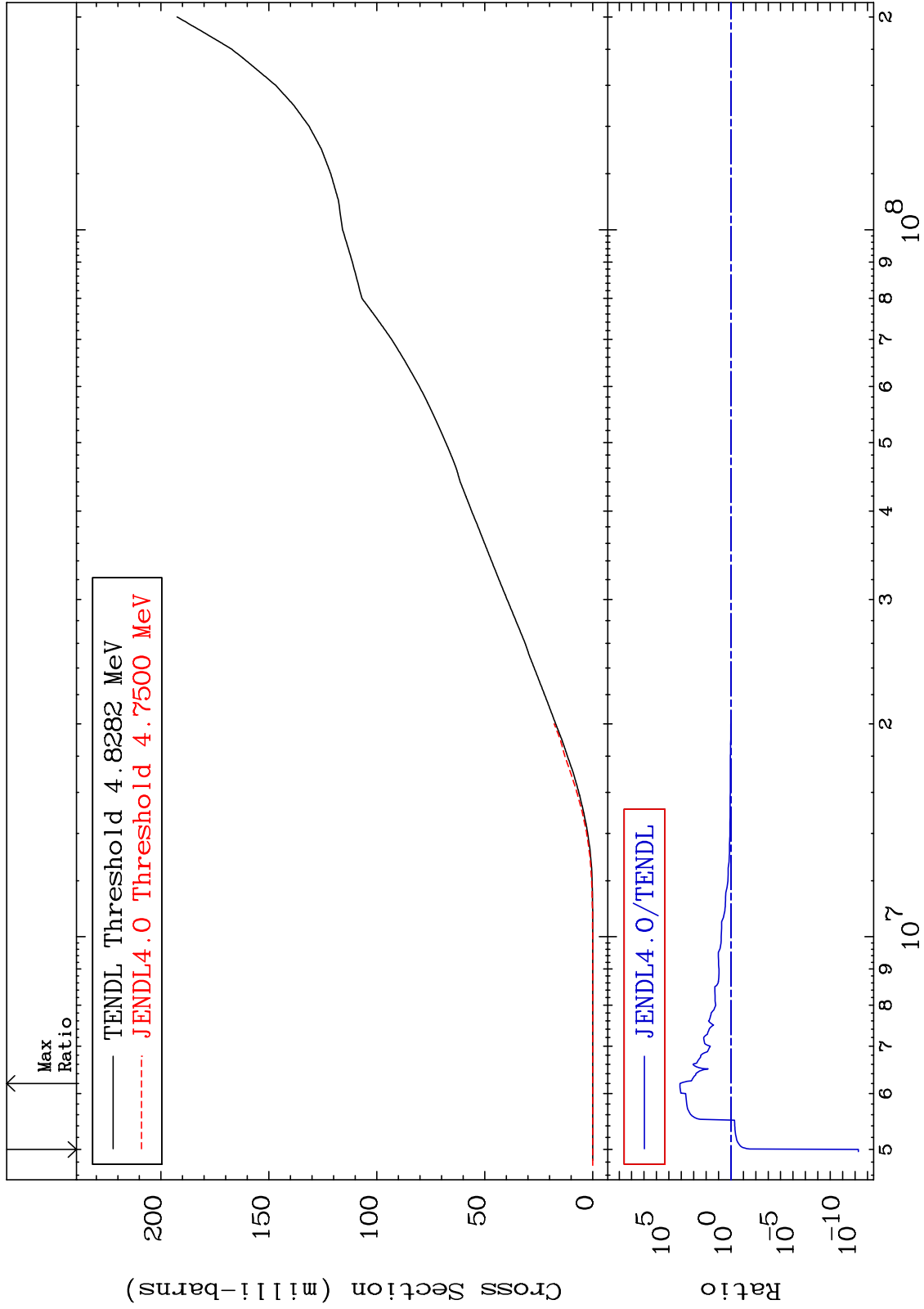
54-Xe-124
-70.49 To 9999. %



MAT 5425

Deuterium Production
Cross Section

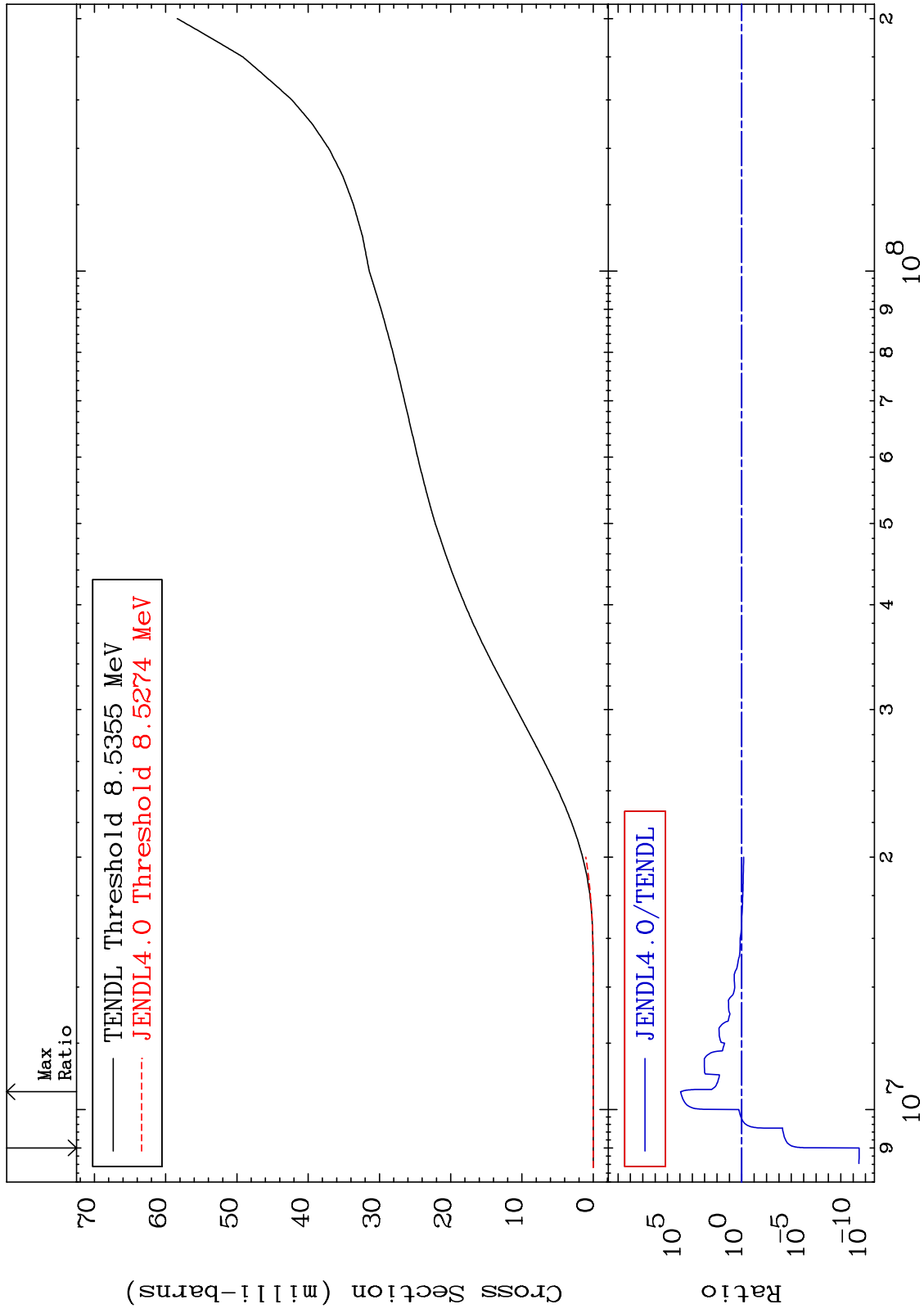
54-Xe-124
-100.0 To 9999. %



MAT 5425

Tritium Production
Cross Section

54-Xe-124
-100.0 To 9999. %



27

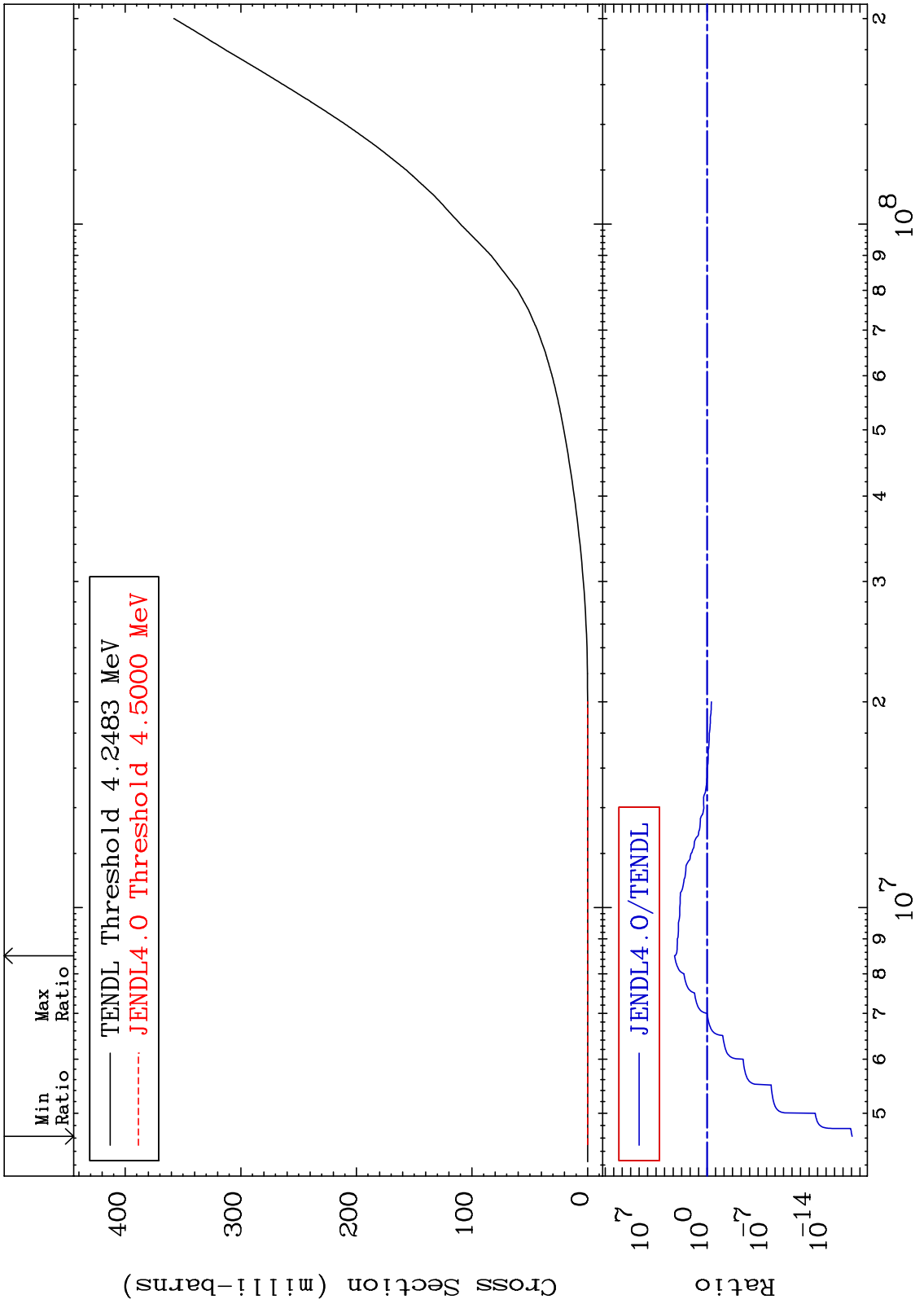
Incident Energy (eV)

54-Xe-124

MAT 5425

He-3 Production
Cross Section

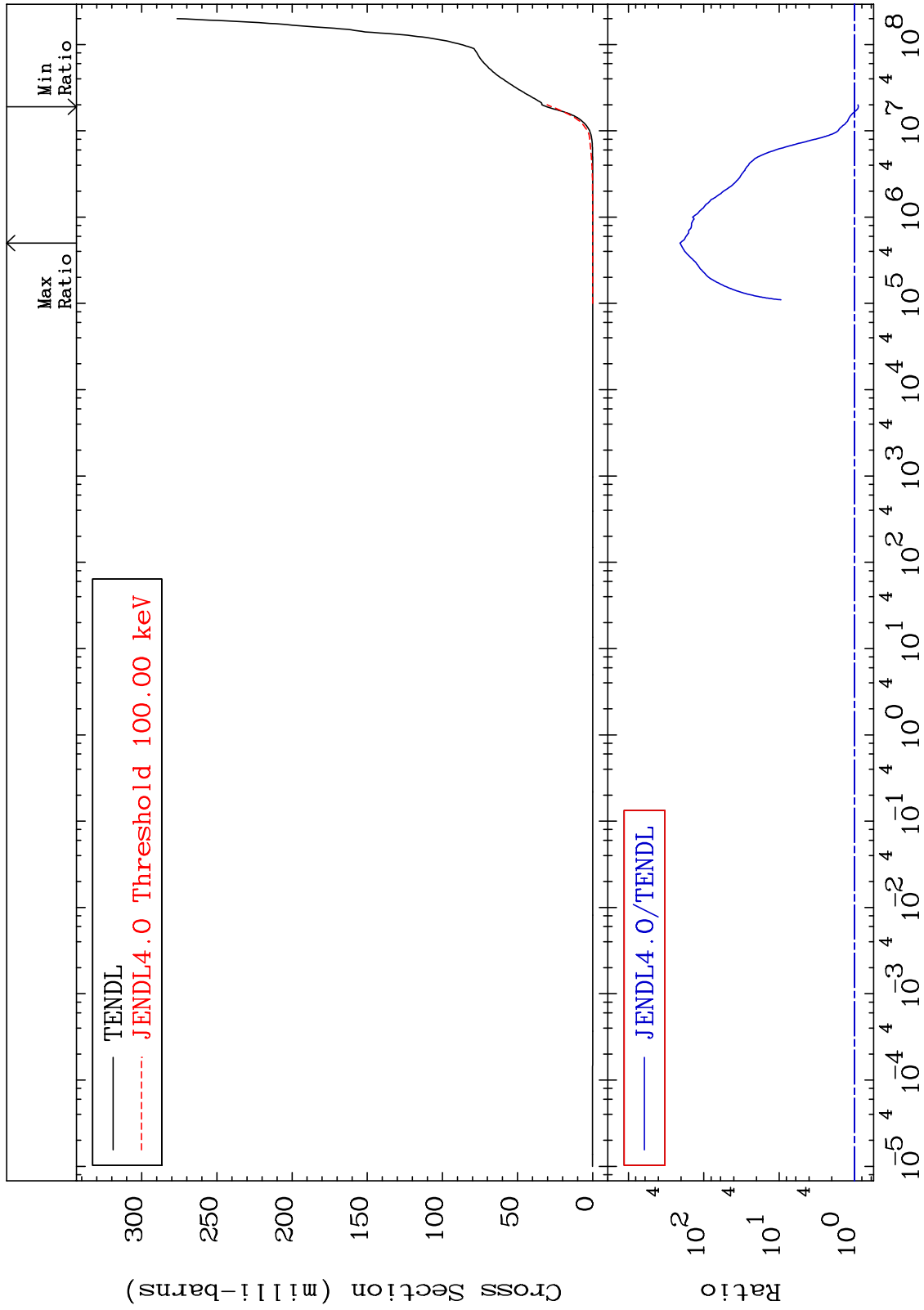
54-Xe-124
-100.0 To 9999. %



MAT 5425

He-4 Production
Cross Section

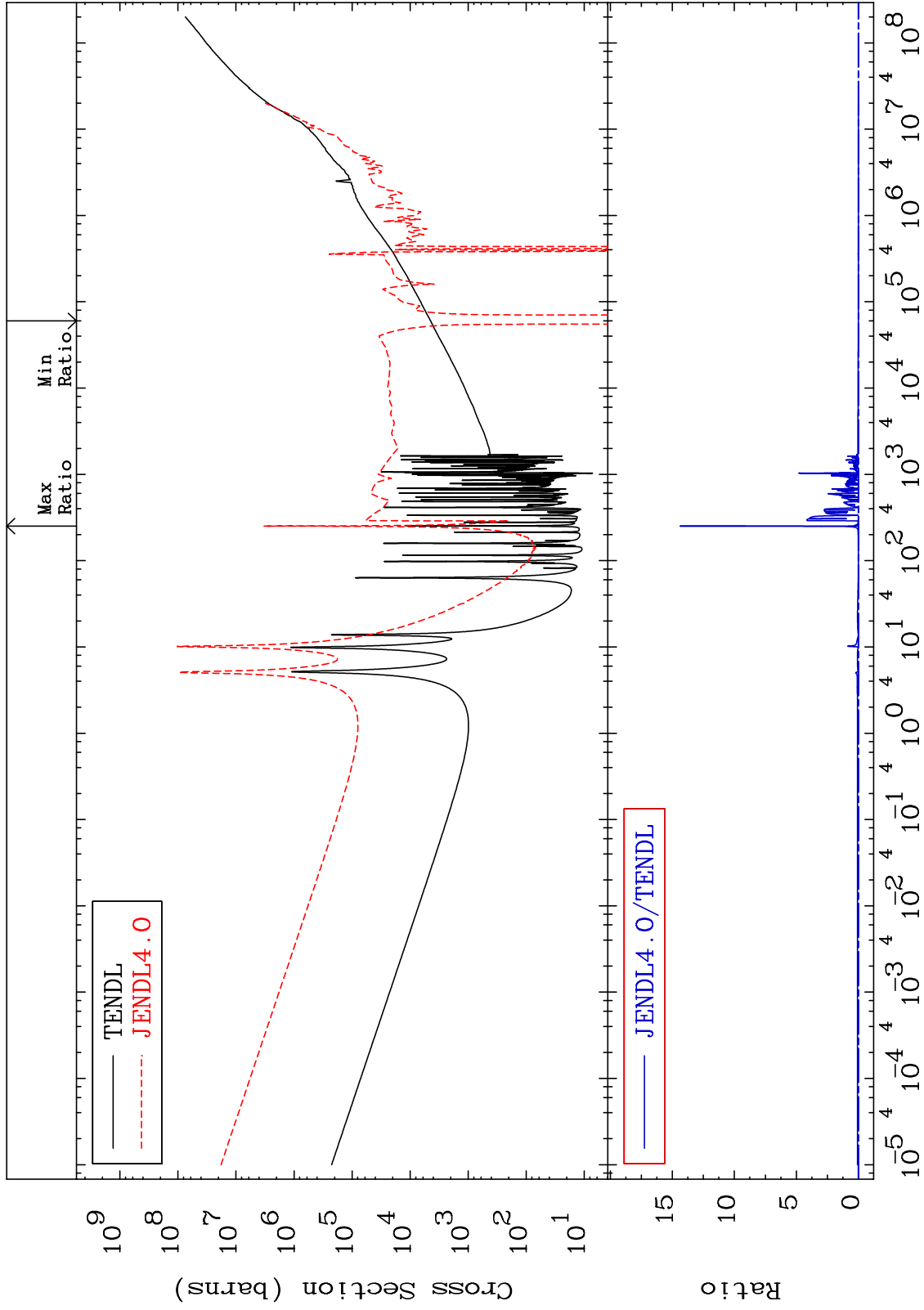
54-Xe-124
-11.23 To 9999. %



MAT 5425

Kerma total (eV-barns)
Cross Section

54-Xe-124
-271.7 To 9999. %



30

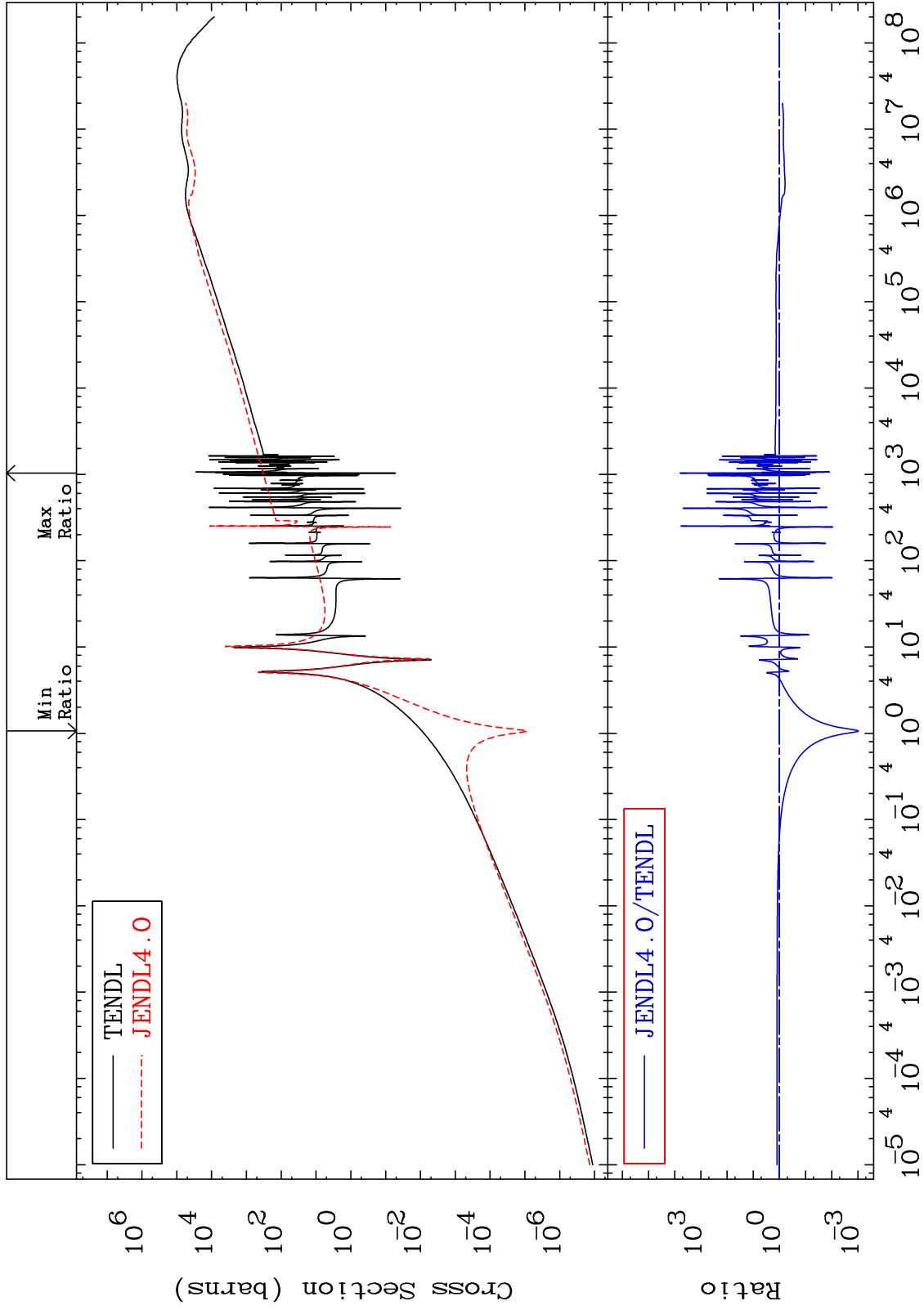
Incident Energy (eV)

54-Xe-124

MAT 5425

Kerma elastic
Cross Section

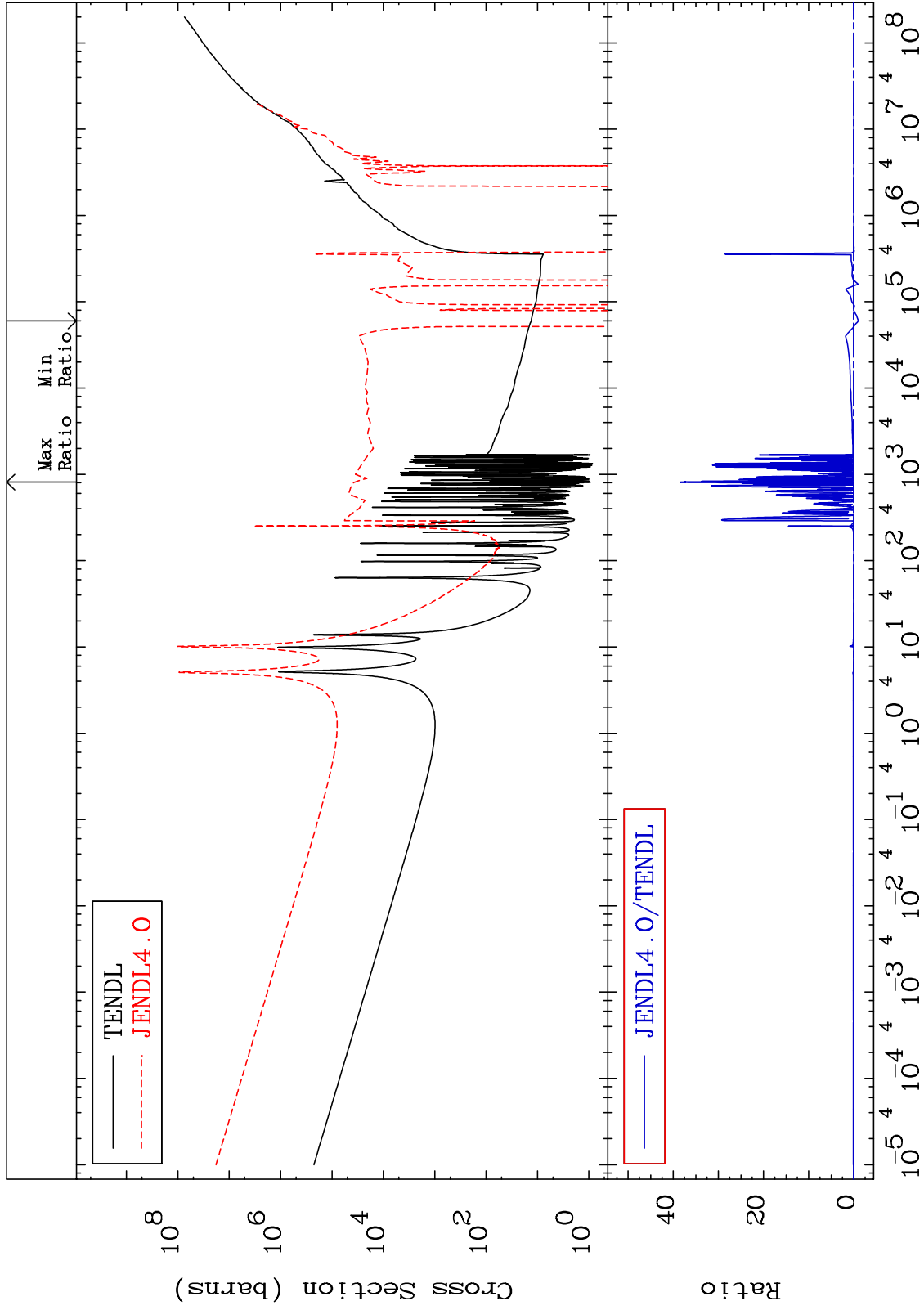
54-Xe-124
-99.90 To 9999. %



MAT 5425

Kerma non-elastic (all but mt2)
Cross Section

54-Xe-124
-9999. To 9999. %



32

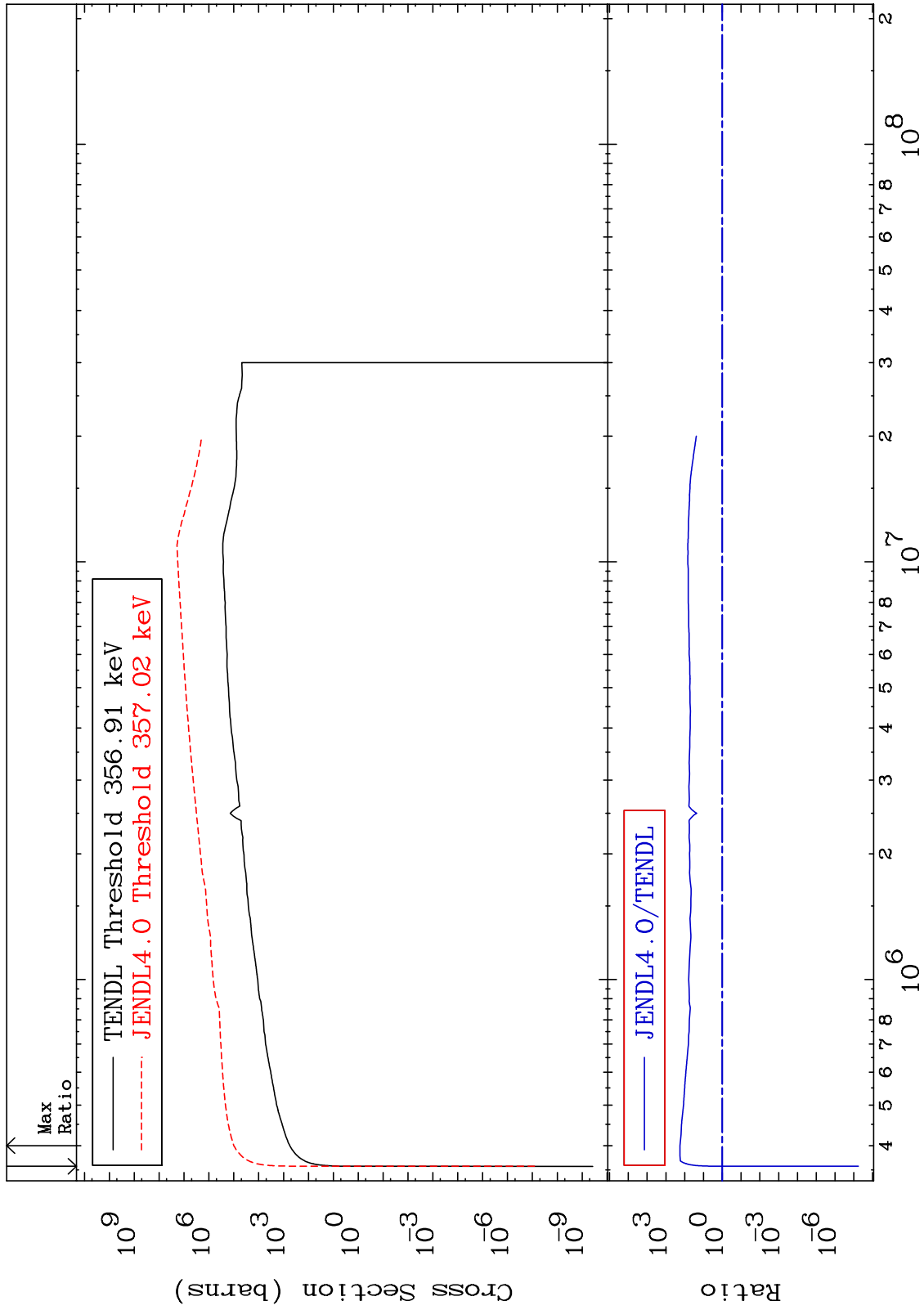
Incident Energy (eV)

54-Xe-124

MAT 5425

Kerma inelastic (mt51-91)
Cross Section

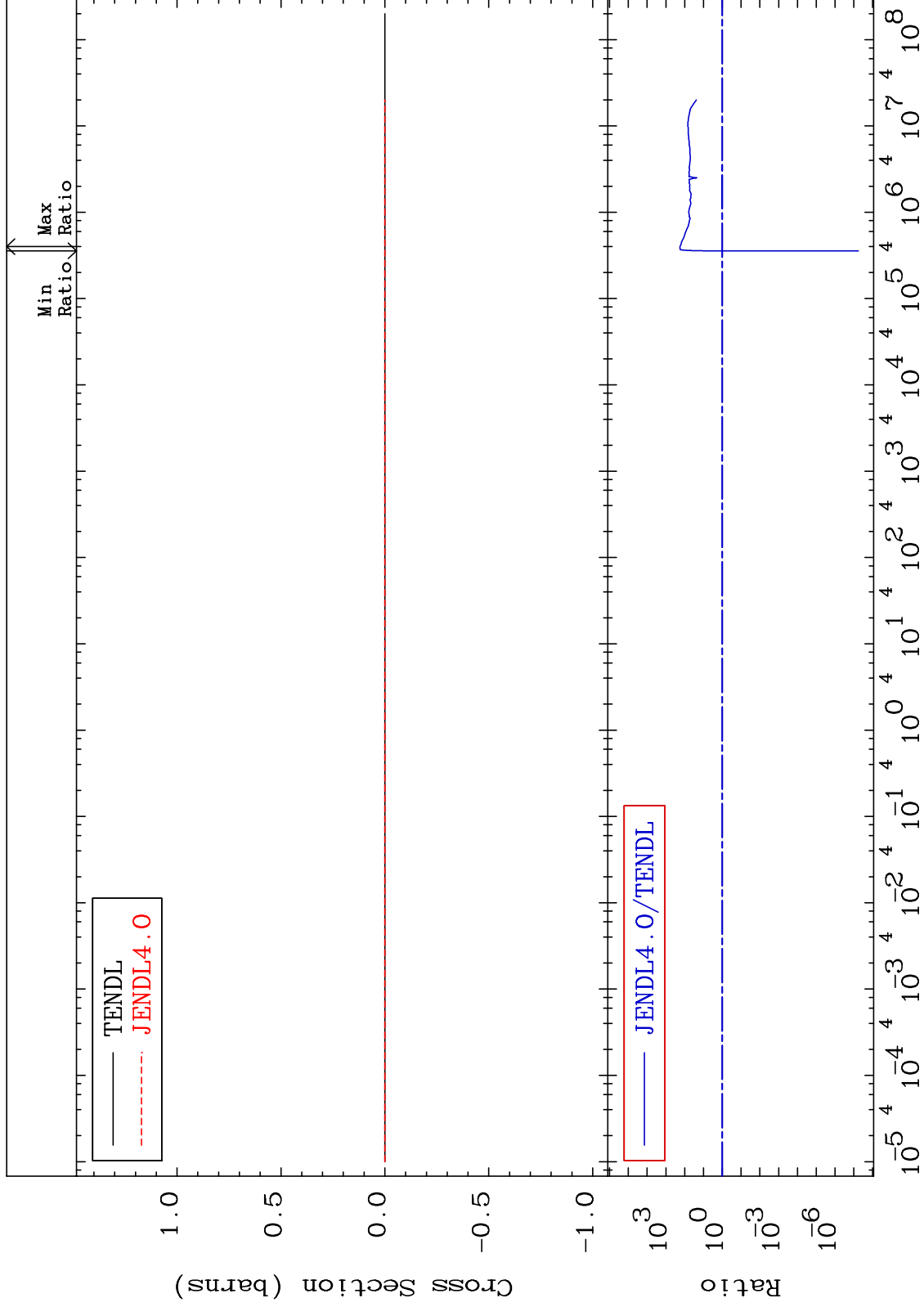
54-Xe-124
-100.0 To 9999. %



MAT 5425

Kerma fission (mt18 or mt19-20-21-38)
Cross Section

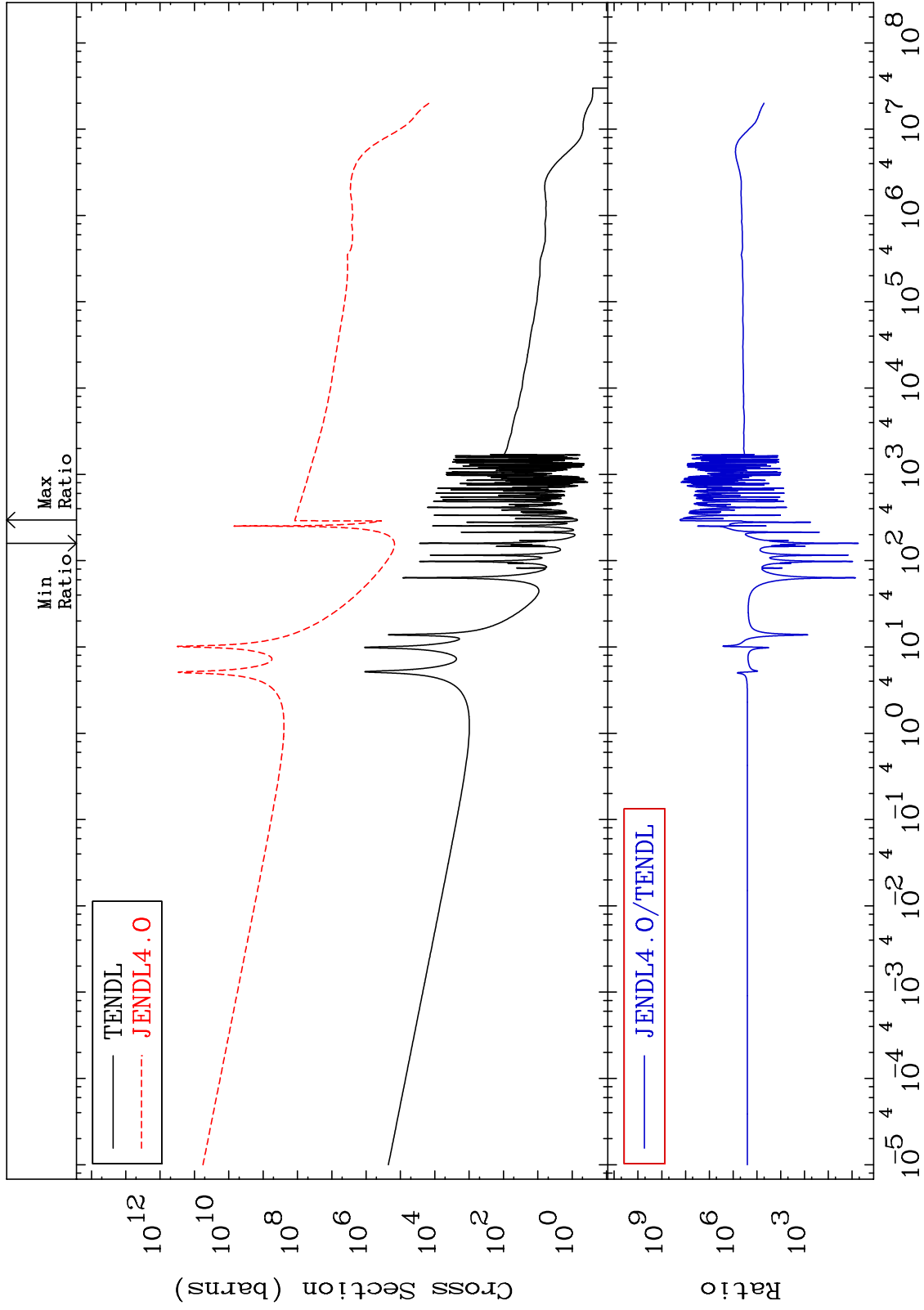
54-Xe-124
-100.0 To 9999. %



MAT 5425

Kerma capture (mt102)
Cross Section

54-Xe-124
440.2 To 9999. %



35

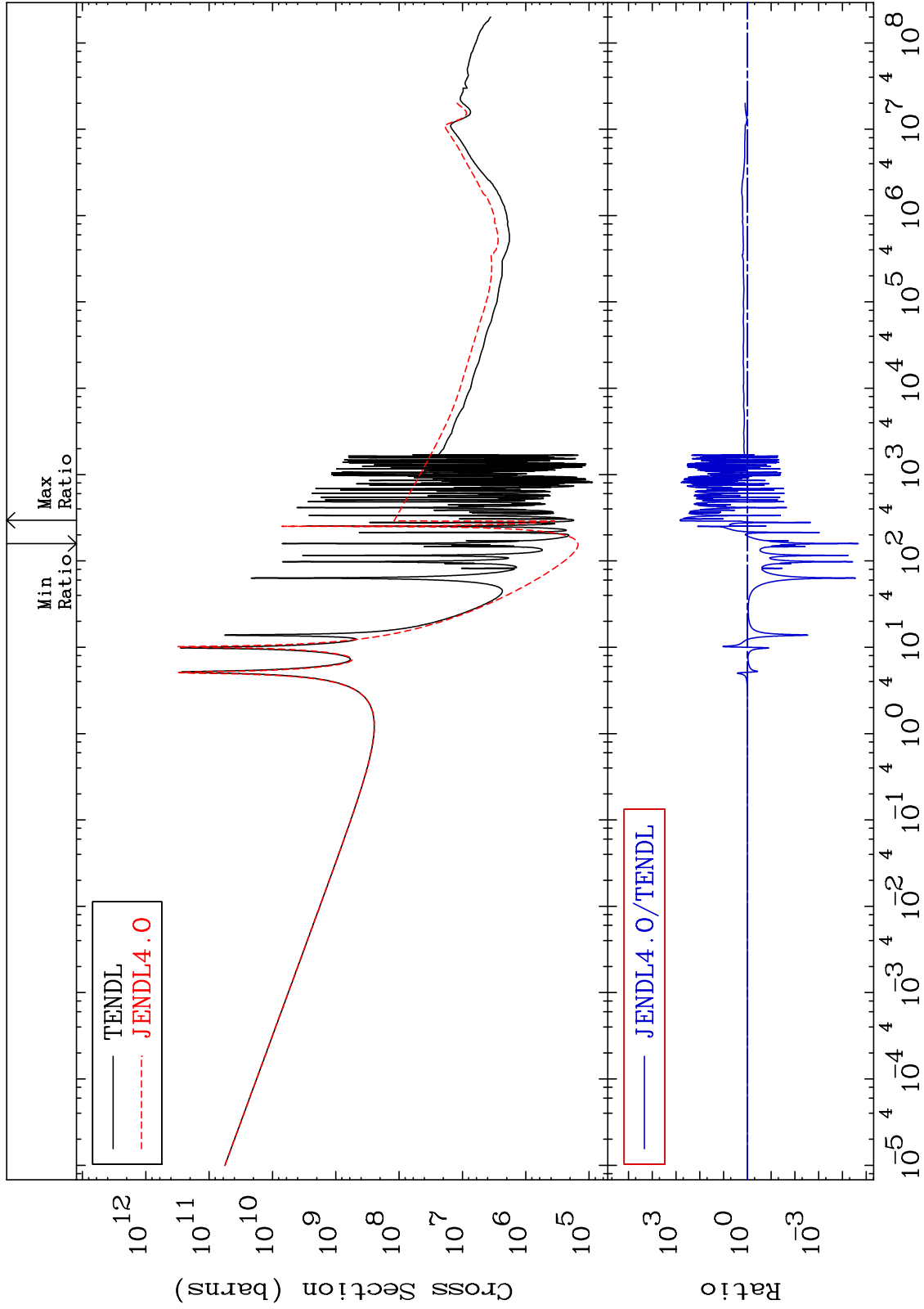
Incident Energy (eV)

54-Xe-124

MAT 5425

Total photon (eV-barns)
Cross Section

54-Xe-124
-100.0 To 9999. %



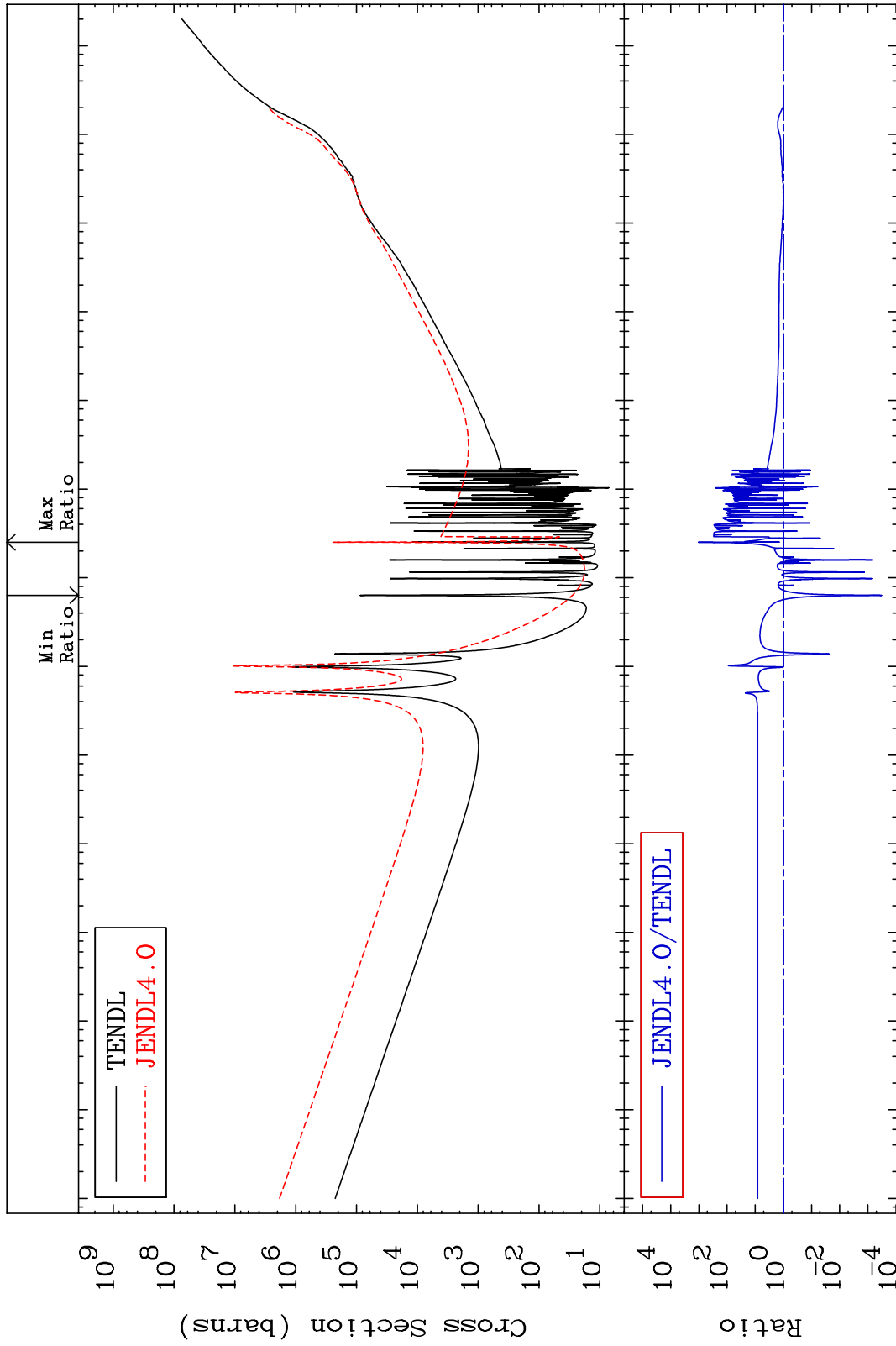
MAT 5425

Total kinematic kerma (high limit)

54-Xe-124

-99.97 To 9999. %

Cross Section



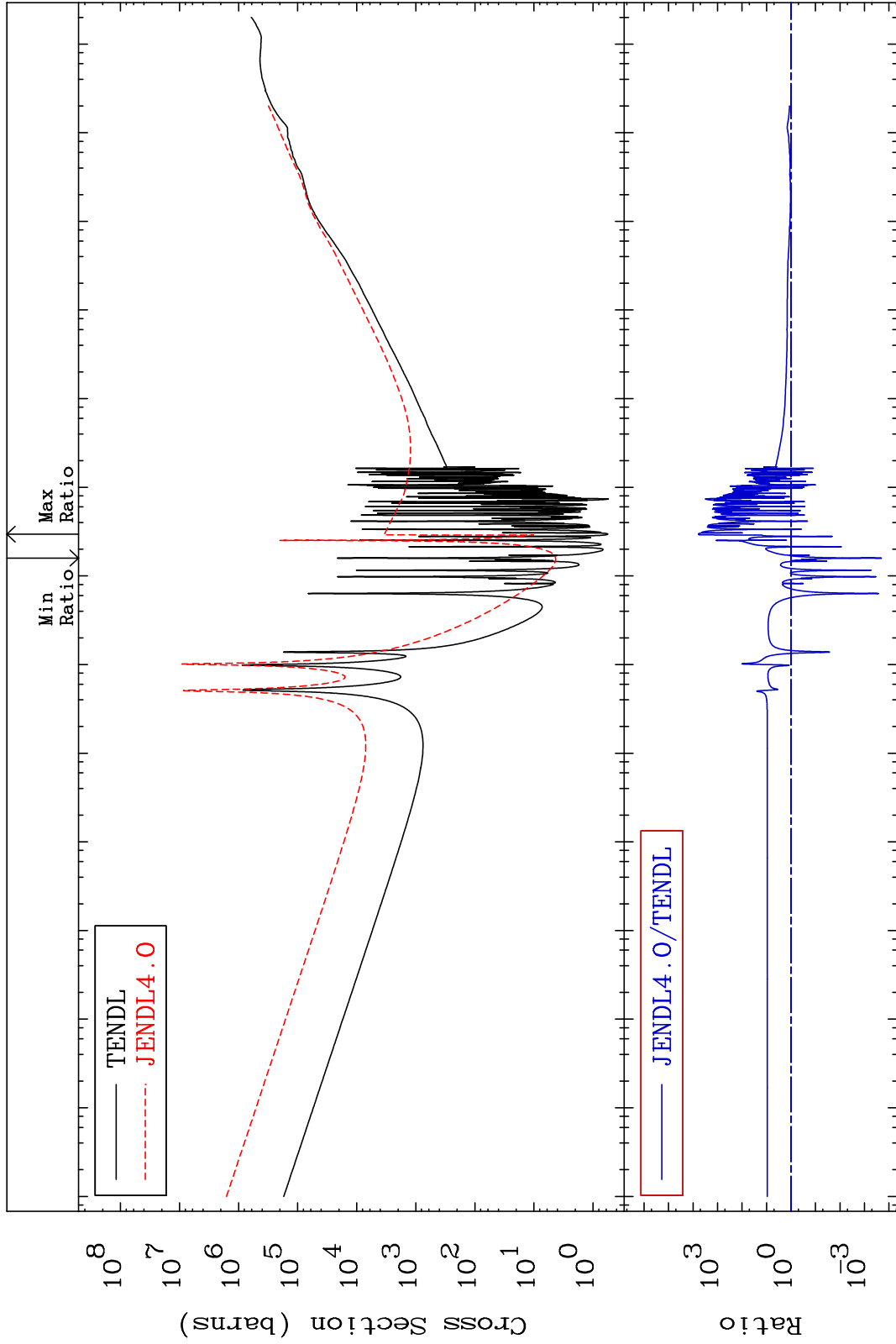
Incident Energy (eV)

54-Xe-124

MAT 5425

Dpa total (eV-barns)
Cross Section

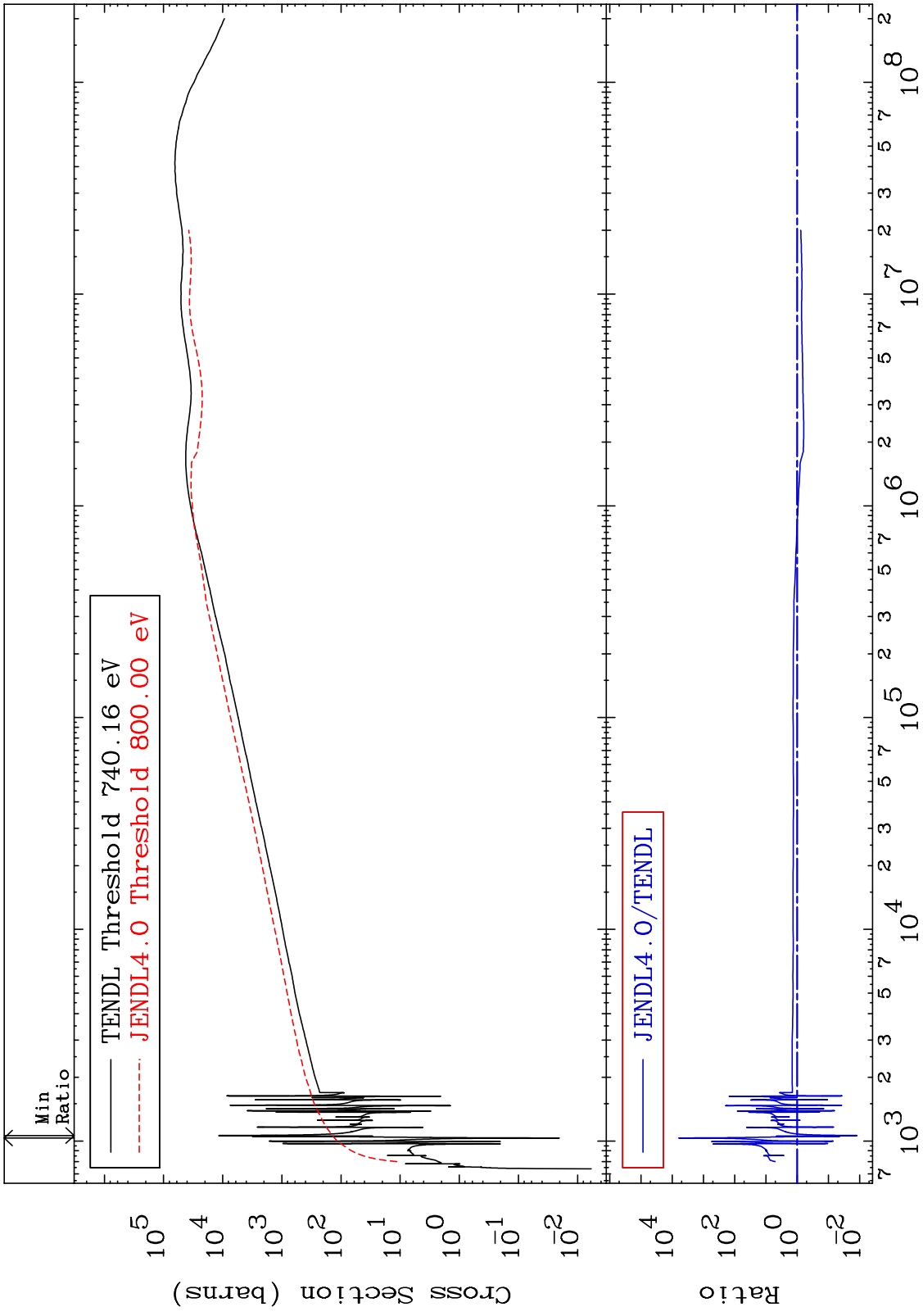
54-Xe-124
-99.98 To 9999. %



MAT 5425

Dpa elastic (mt2)
Cross Section

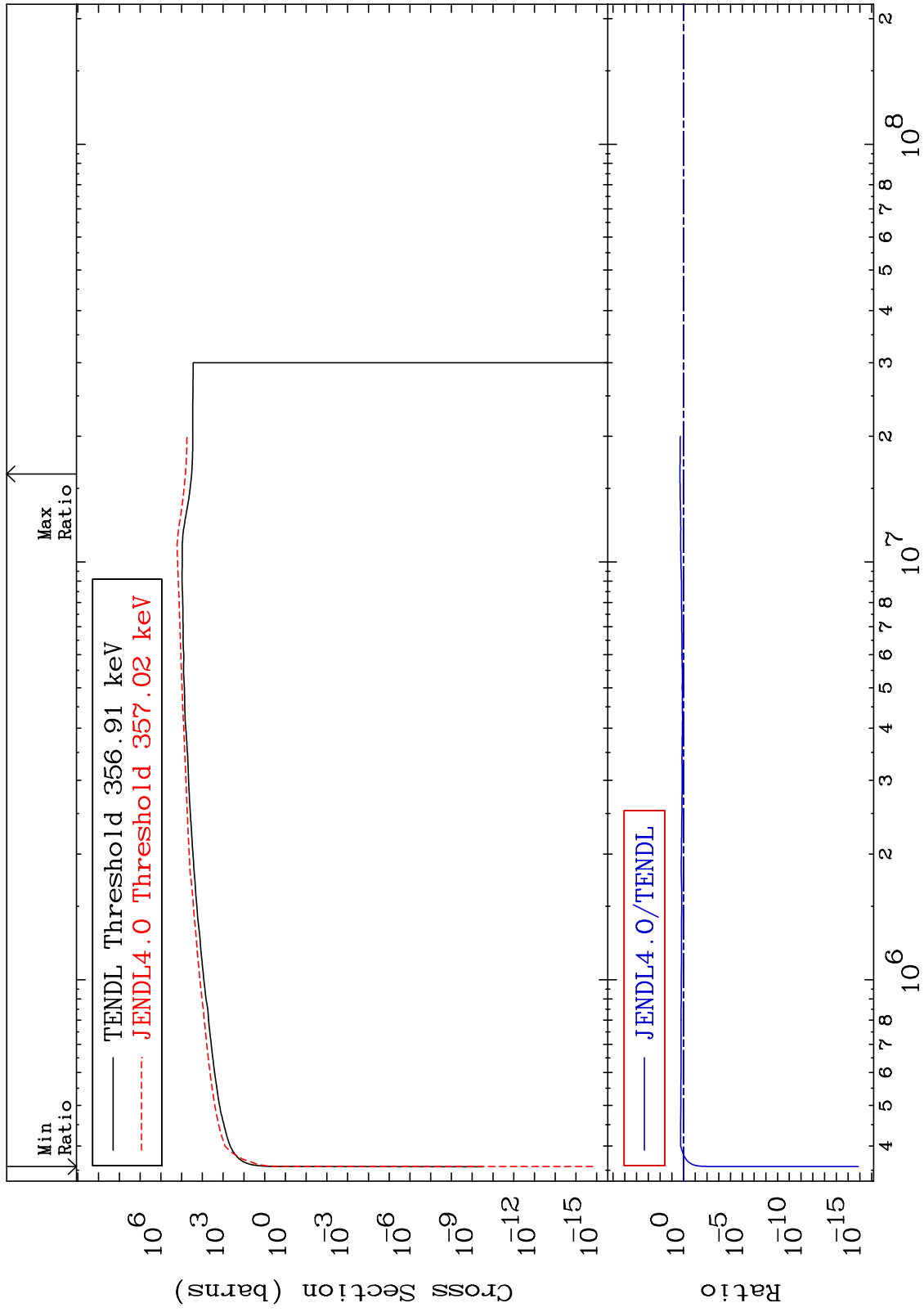
54-Xe-124
-98.81 To 9999. %



MAT 5425

Dpa inelastic (mt51-91)
Cross Section

54-Xe-124
-100.0 To 99.39 %



40

Incident Energy (eV)

54-Xe-124

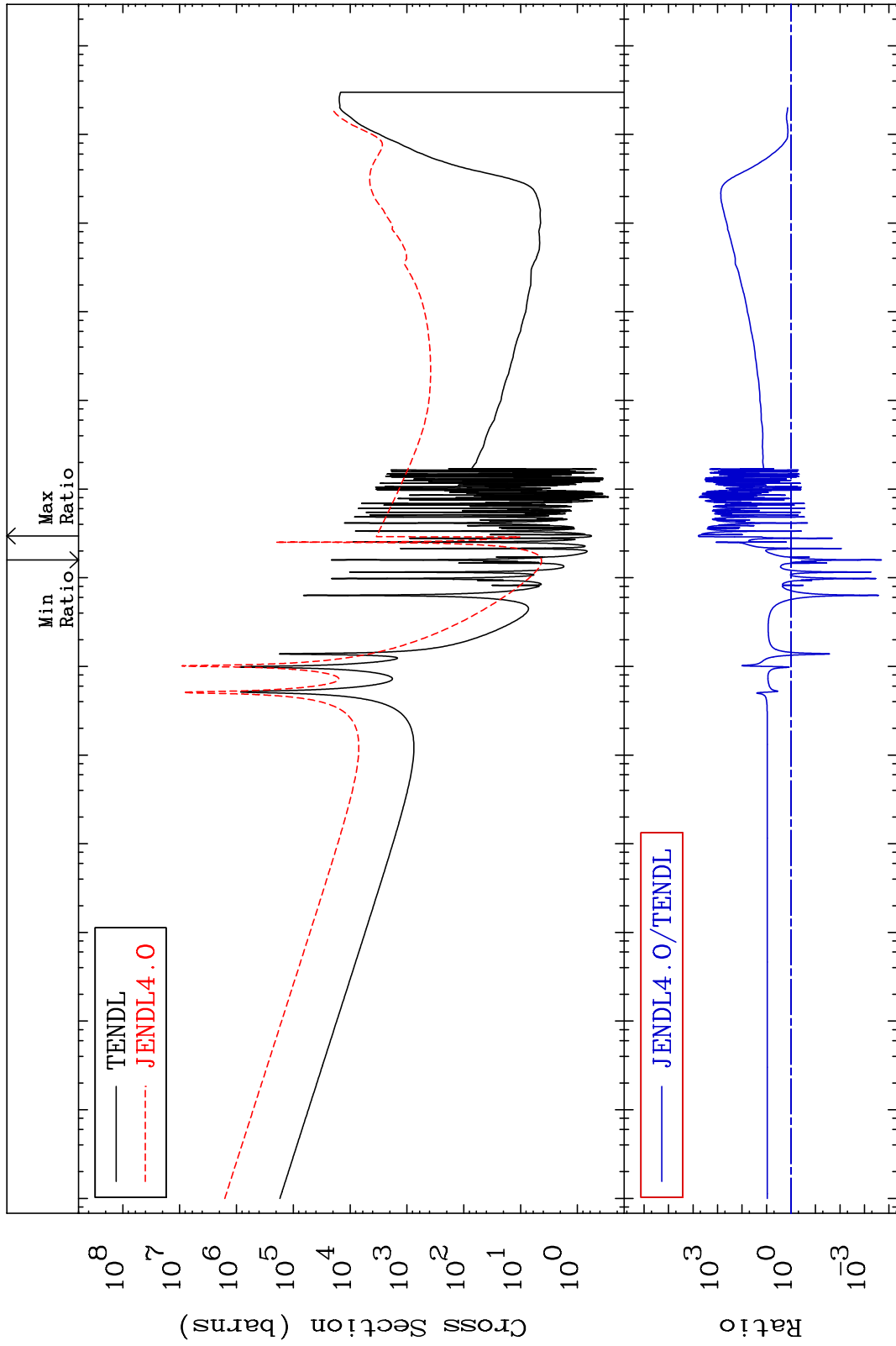
MAT 5425

Dpa disappearance (mt102 -120)

54-Xe-124

-99.98 To 9999. %

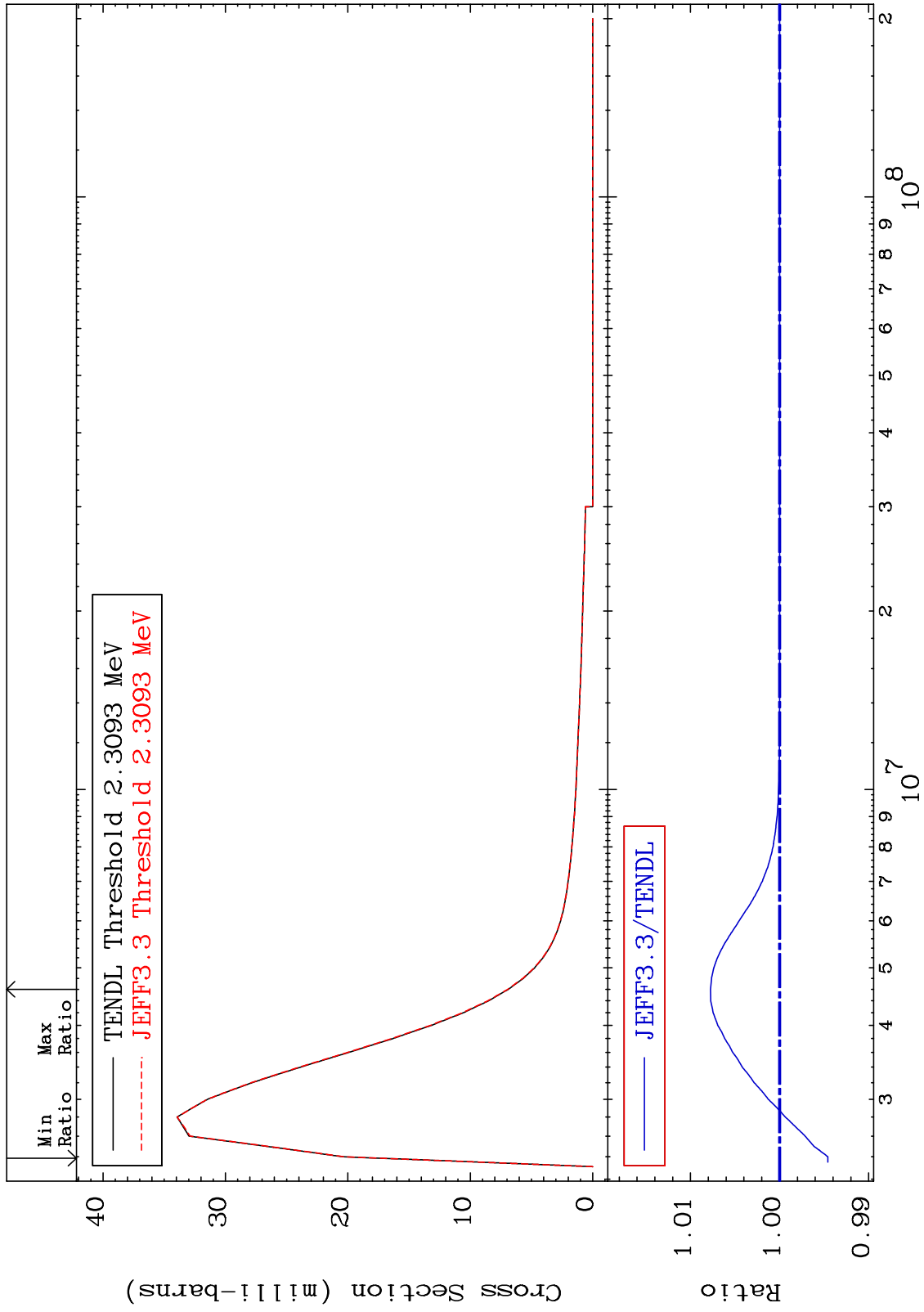
Cross Section



MAT 5425

MT= 74 (n,n') Level
Cross Section

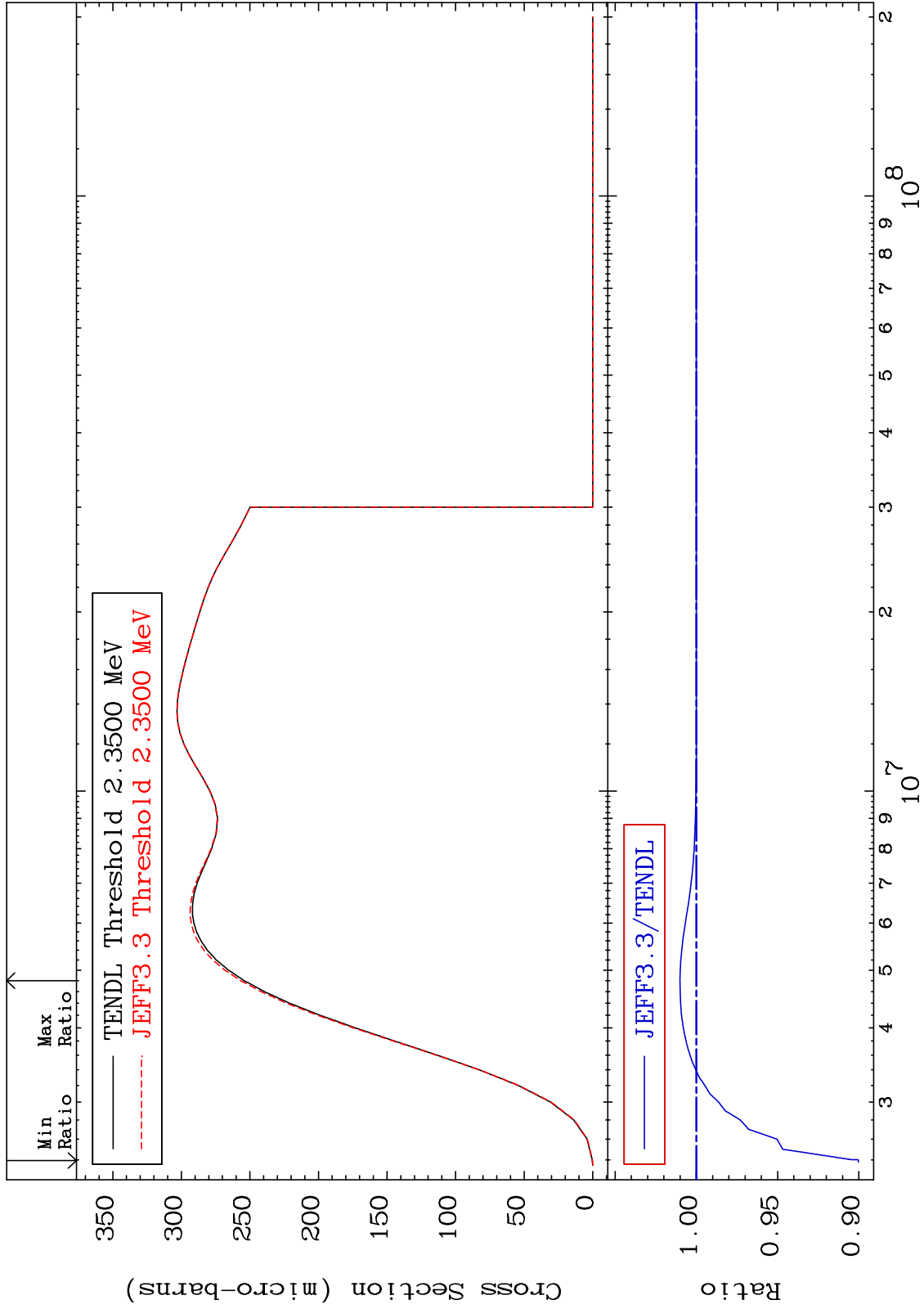
54-Xe-124
-0.543 To 0.776 %



MAT 5425

MT= 75 (n,n') Level
Cross Section

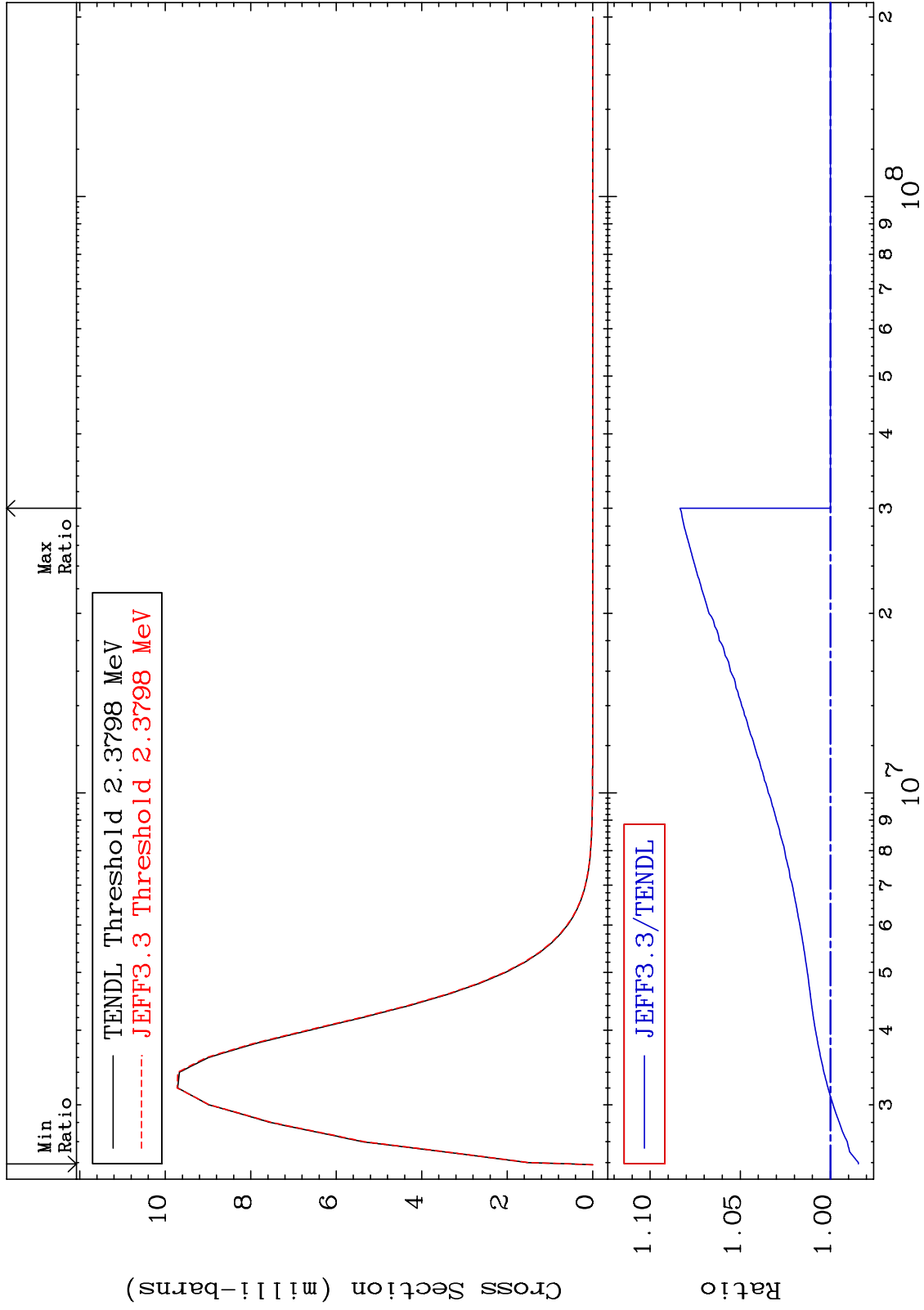
54-Xe-124
-9.976 To 1.006 %



MAT 5425

MT= 76 (n,n') Level
Cross Section

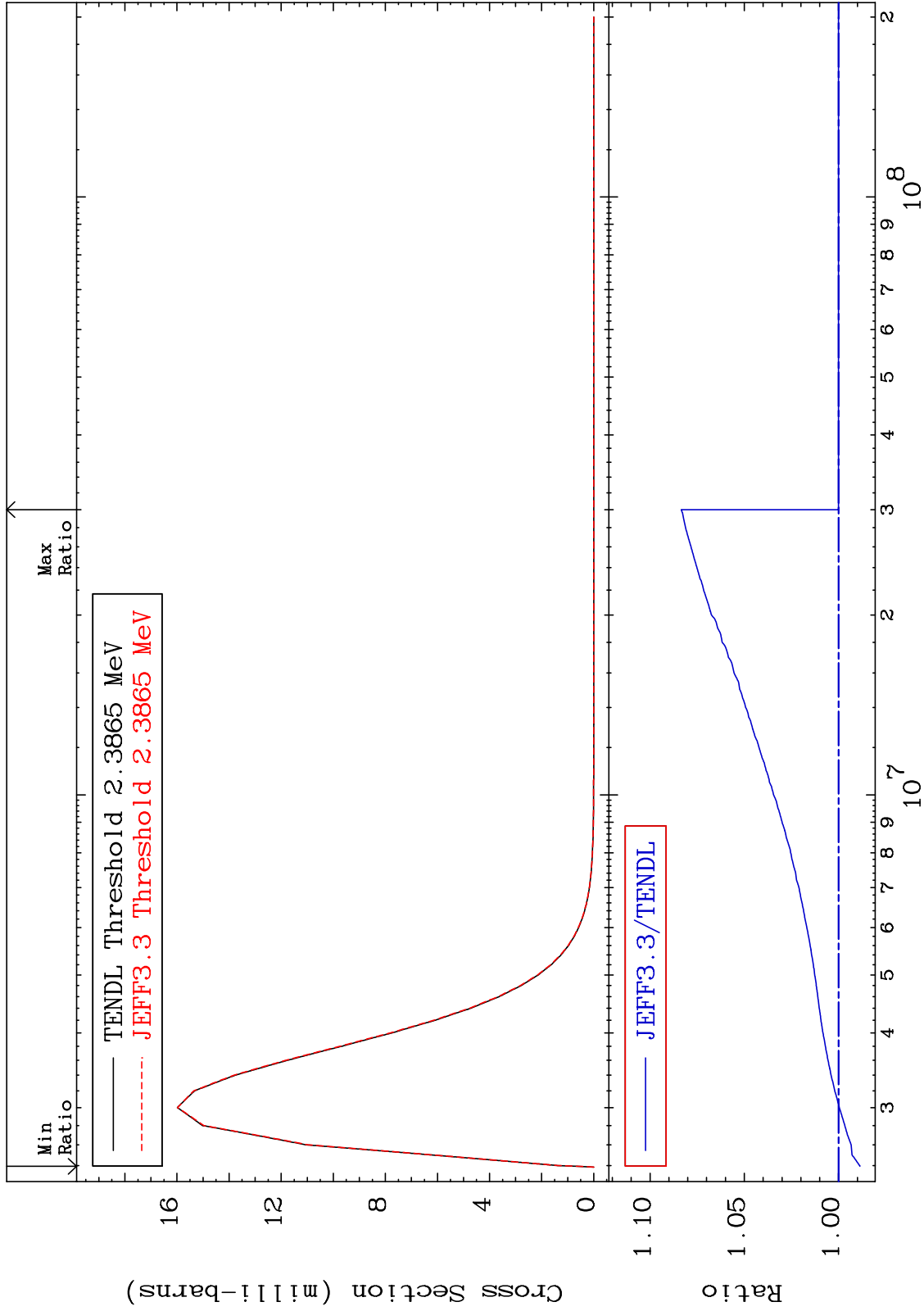
54-Xe-124
-1.549 To 8.342 %



MAT 5425

MT= 77 (n, n') Level
Cross Section

54-Xe-124
-1.133 To 8.346 %



45

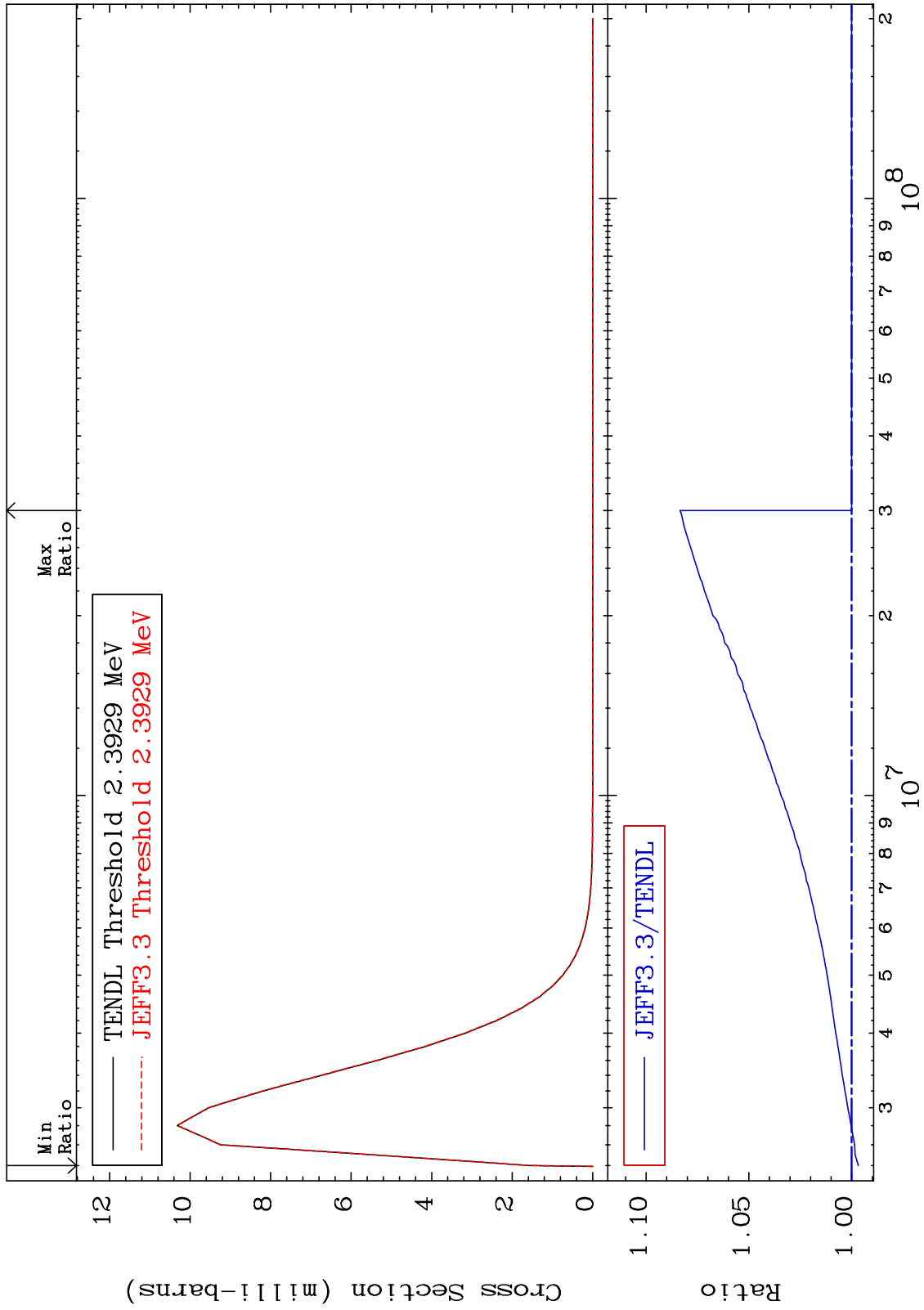
Incident Energy (eV)

54-Xe-124

MAT 5425

MT= 78 (n, n') Level
Cross Section

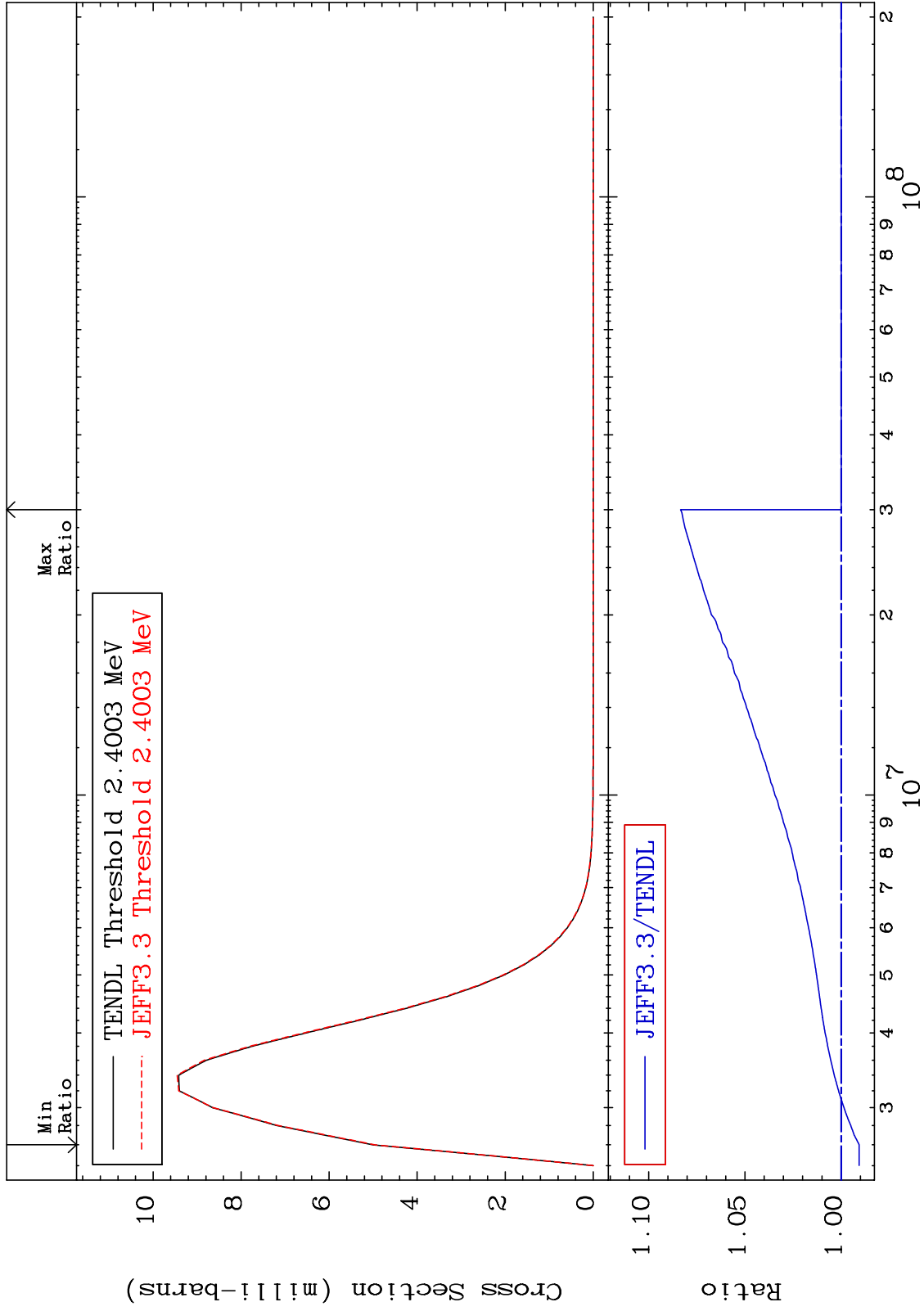
54-Xe-124
-0.328 To 8.354 %



MAT 5425

MT= 79 (n,n') Level
Cross Section

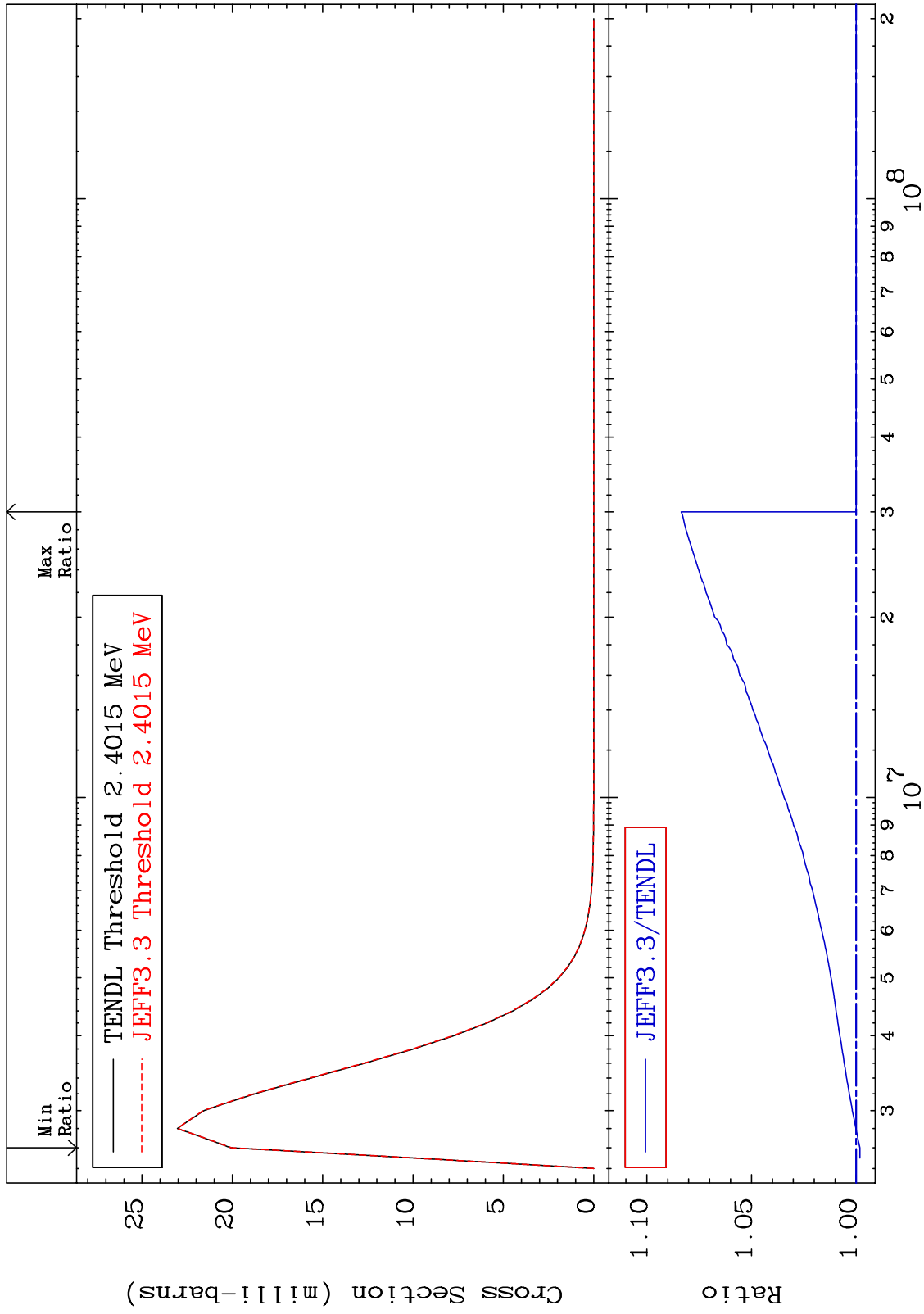
54-Xe-124
-0.934 To 8.342 %



MAT 5425

MT= 80 (n, n') Level
Cross Section

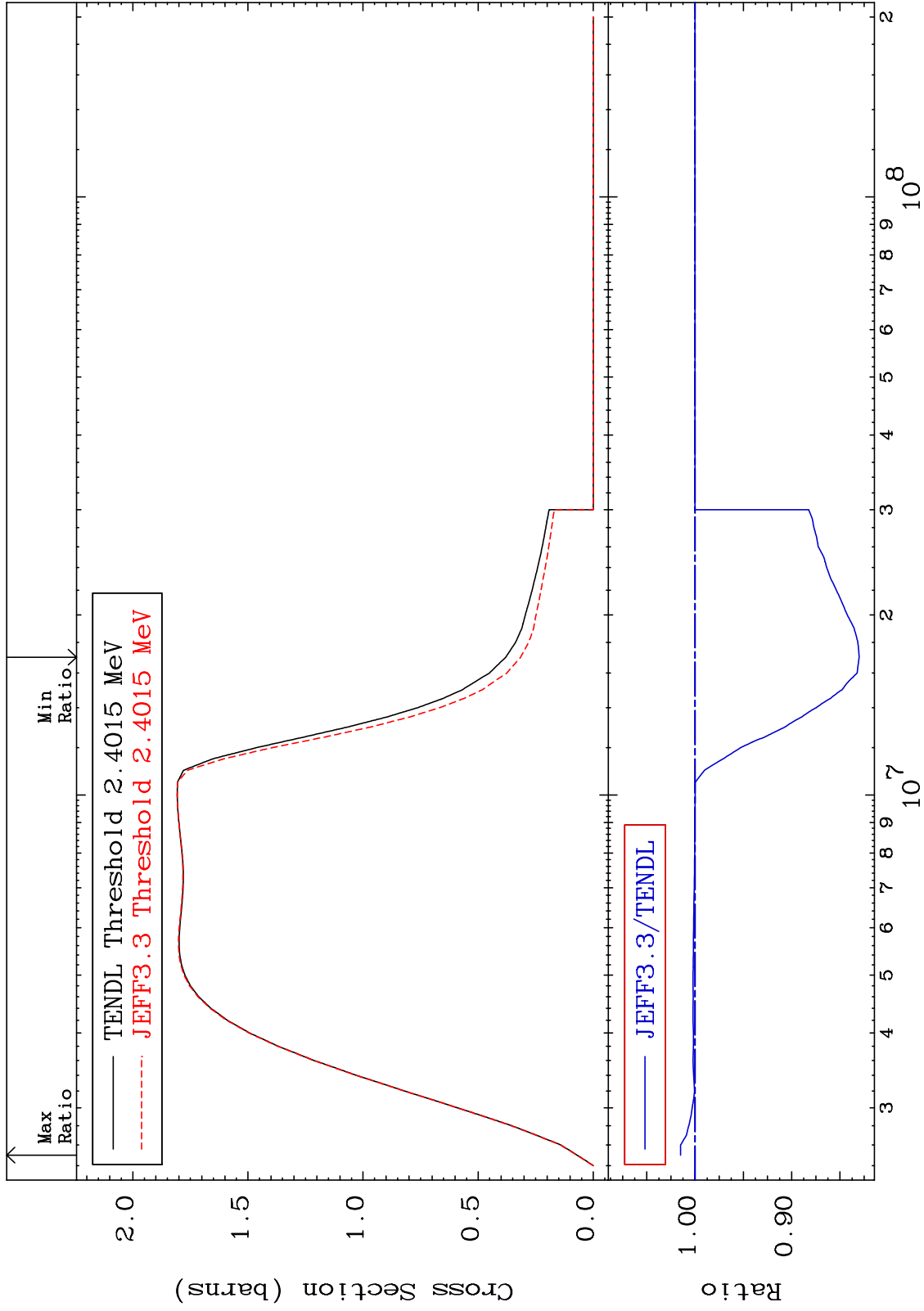
54-Xe-124
-0.182 To 8.355 %



MAT 5425

(n, n') Continuum
Cross Section

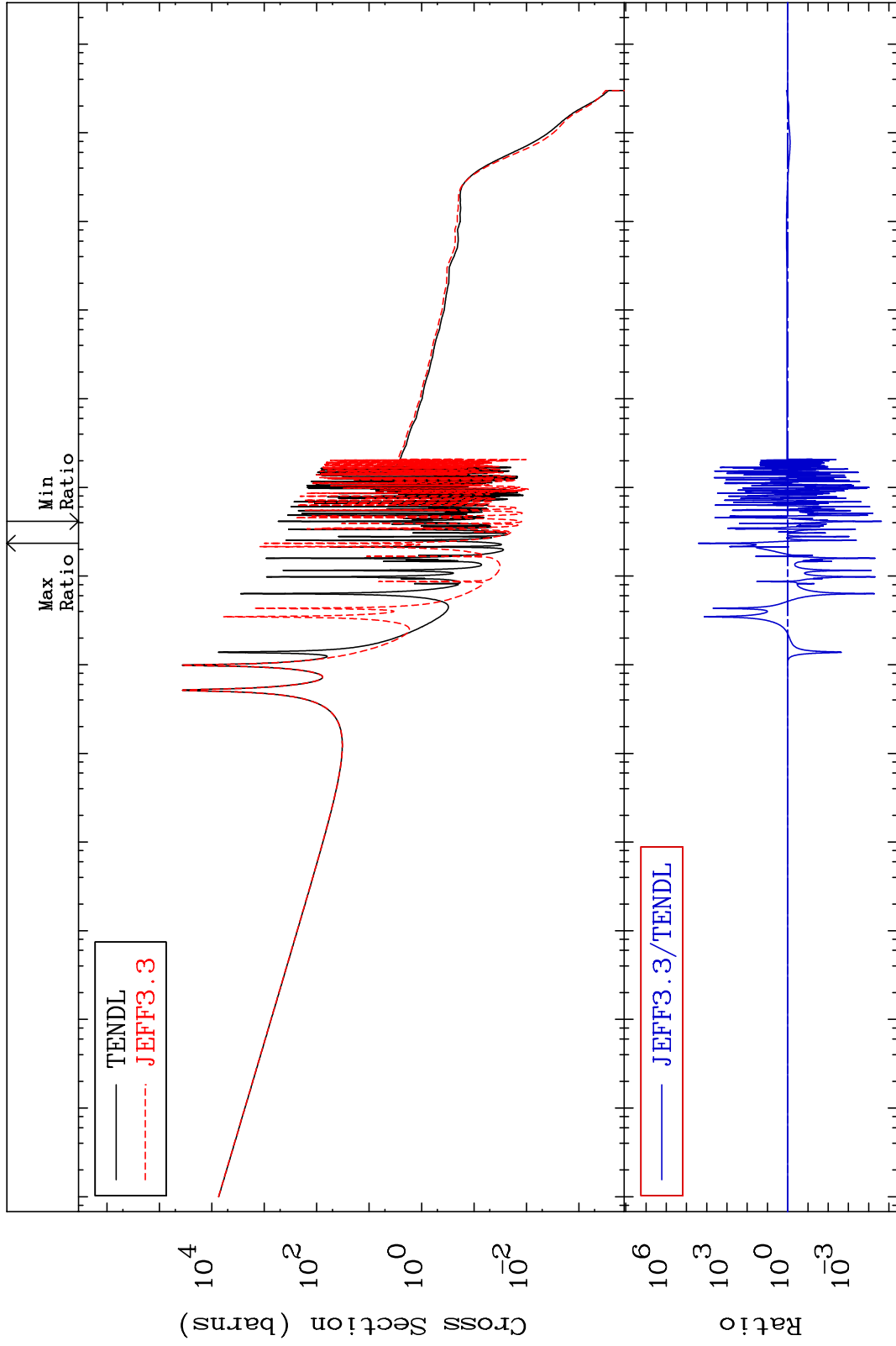
54-Xe-124
-16.99 To 1.495 %



MAT 5425

(n, γ)
Cross Section

54-Xe-124
-100.0 To 9999. %



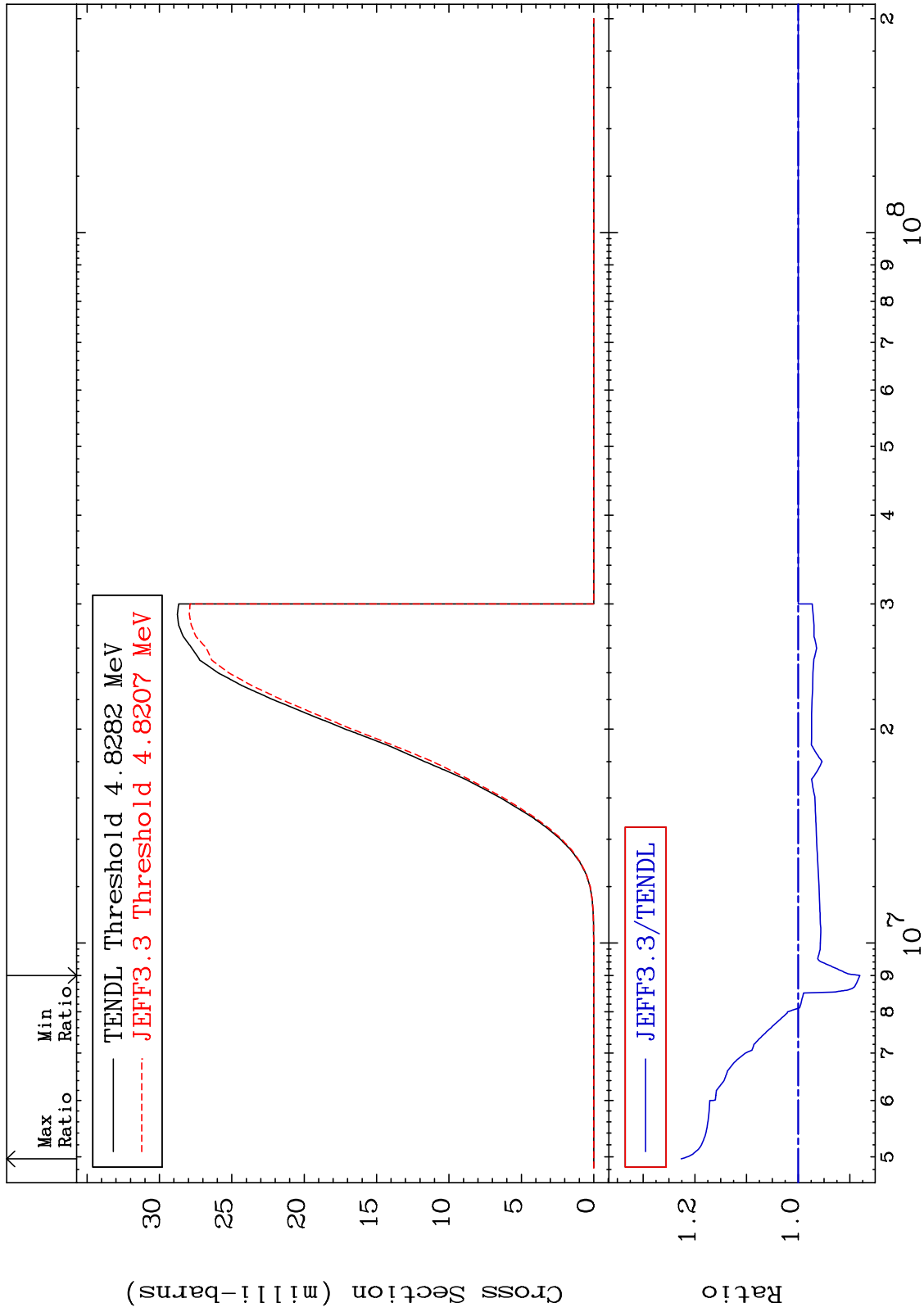
MAT 5425

(n, d)

54-Xe-124

Cross Section

-11.95 To 22.63 %



52

Incident Energy (eV)

54-Xe-124

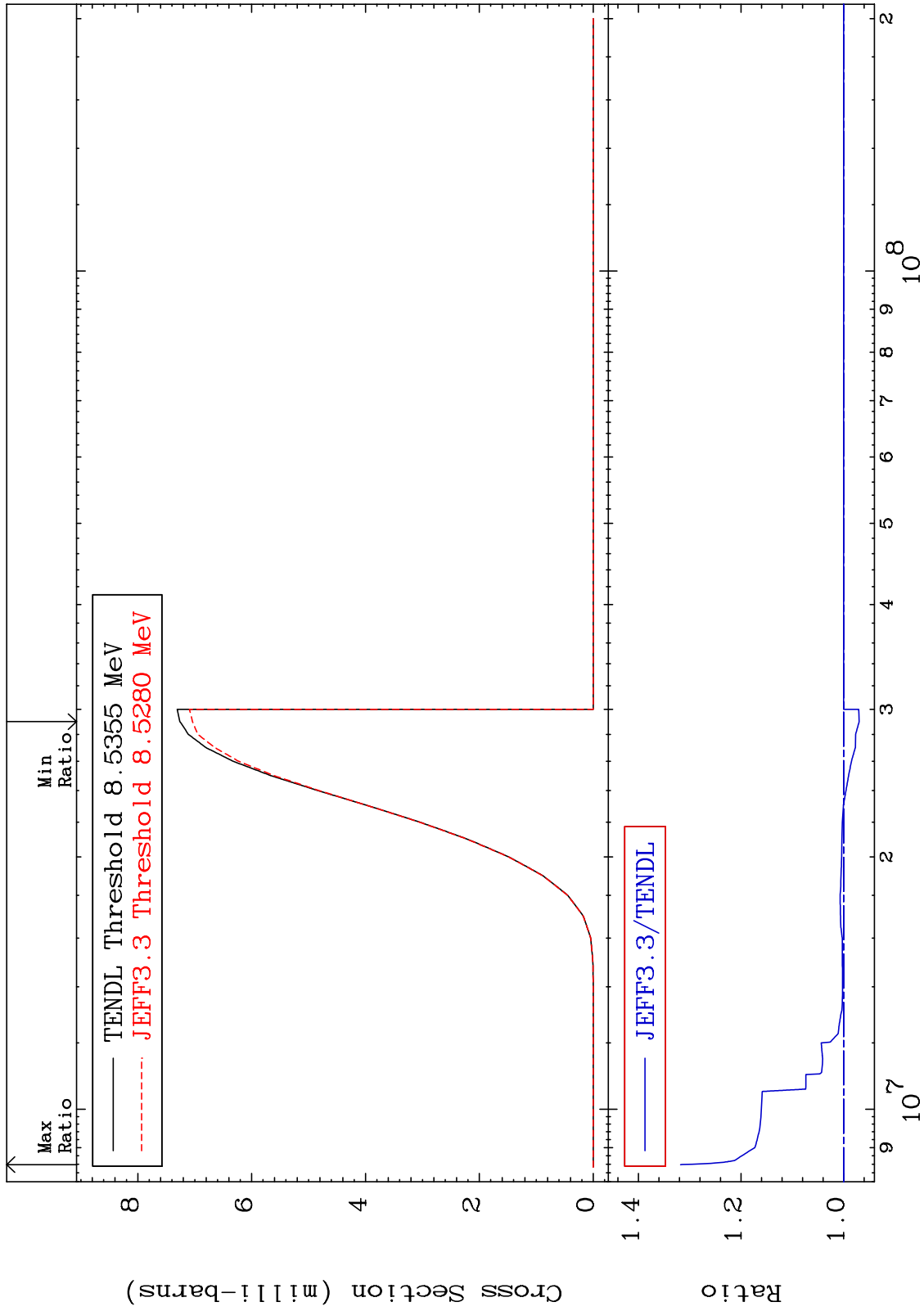
MAT 5425

(n, t)

54-Xe-124

Cross Section

-3.037 To 31.77 %

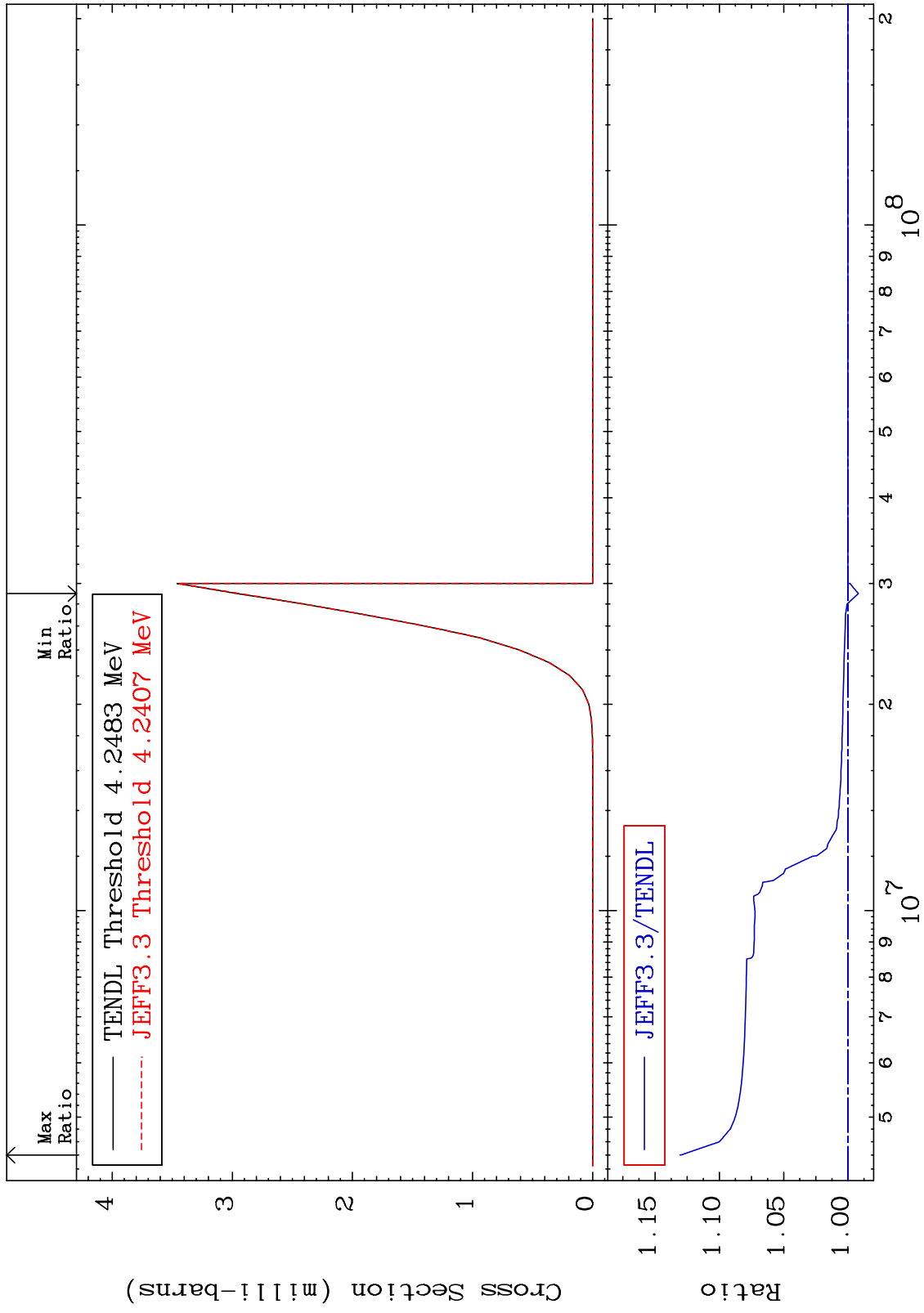


53

Incident Energy (eV)

54-Xe-124

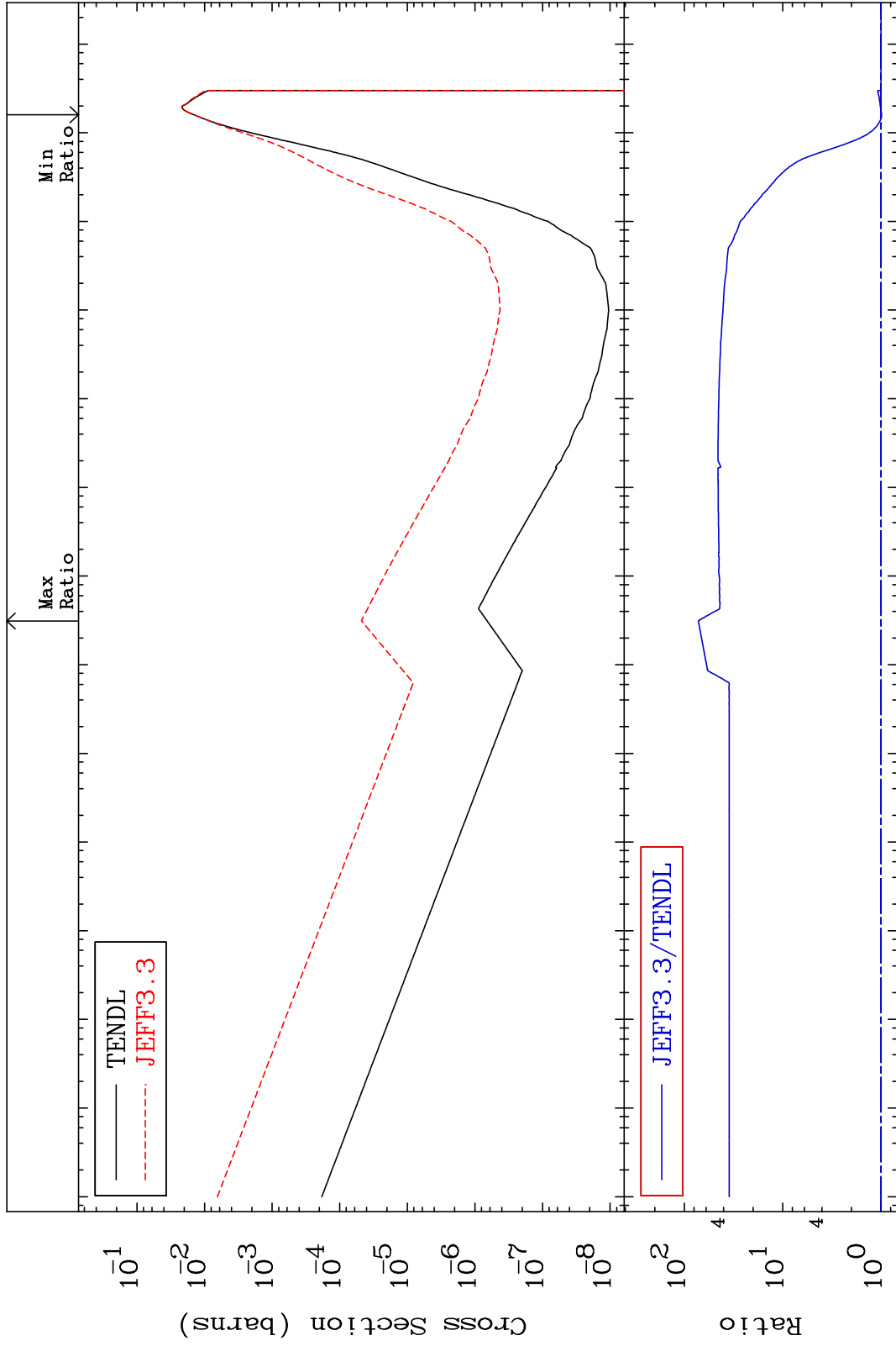
MAT 5425 (n, He-3) Cross Section 54-Xe-124 -0.812 To 13.06 %



MAT 5425

54-Xe-124

(n, α)
Cross Section
-1.075 To 7111. %



Incident Energy (eV)

54-Xe-124

55

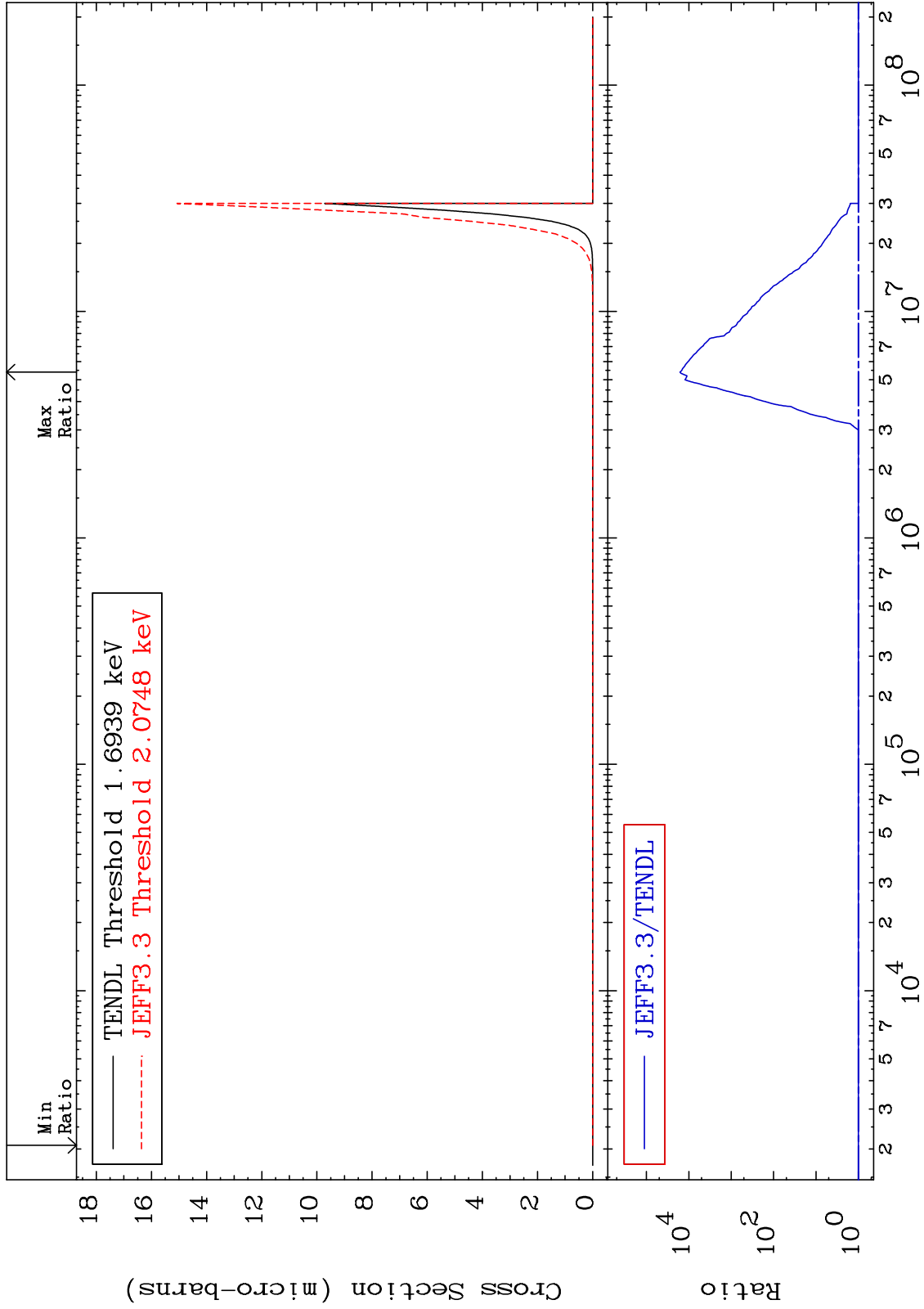
MAT 5425

(n, 2α)

54-Xe-124

Cross Section

0.000 To 9999. %



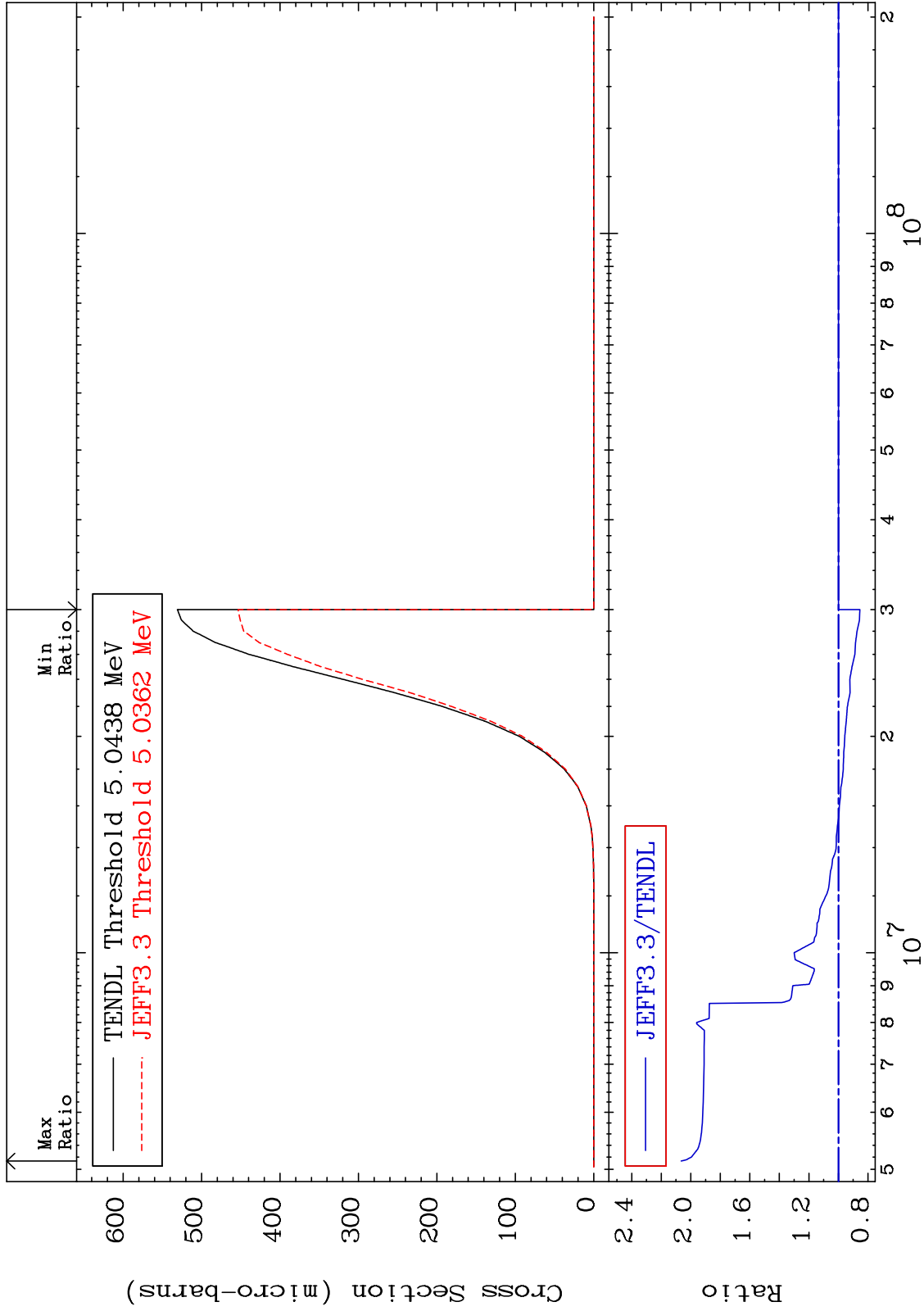
MAT 5425

(n,2p)

54-Xe-124

Cross Section

-14.57 To 106.5 %



57

Incident Energy (eV)

54-Xe-124

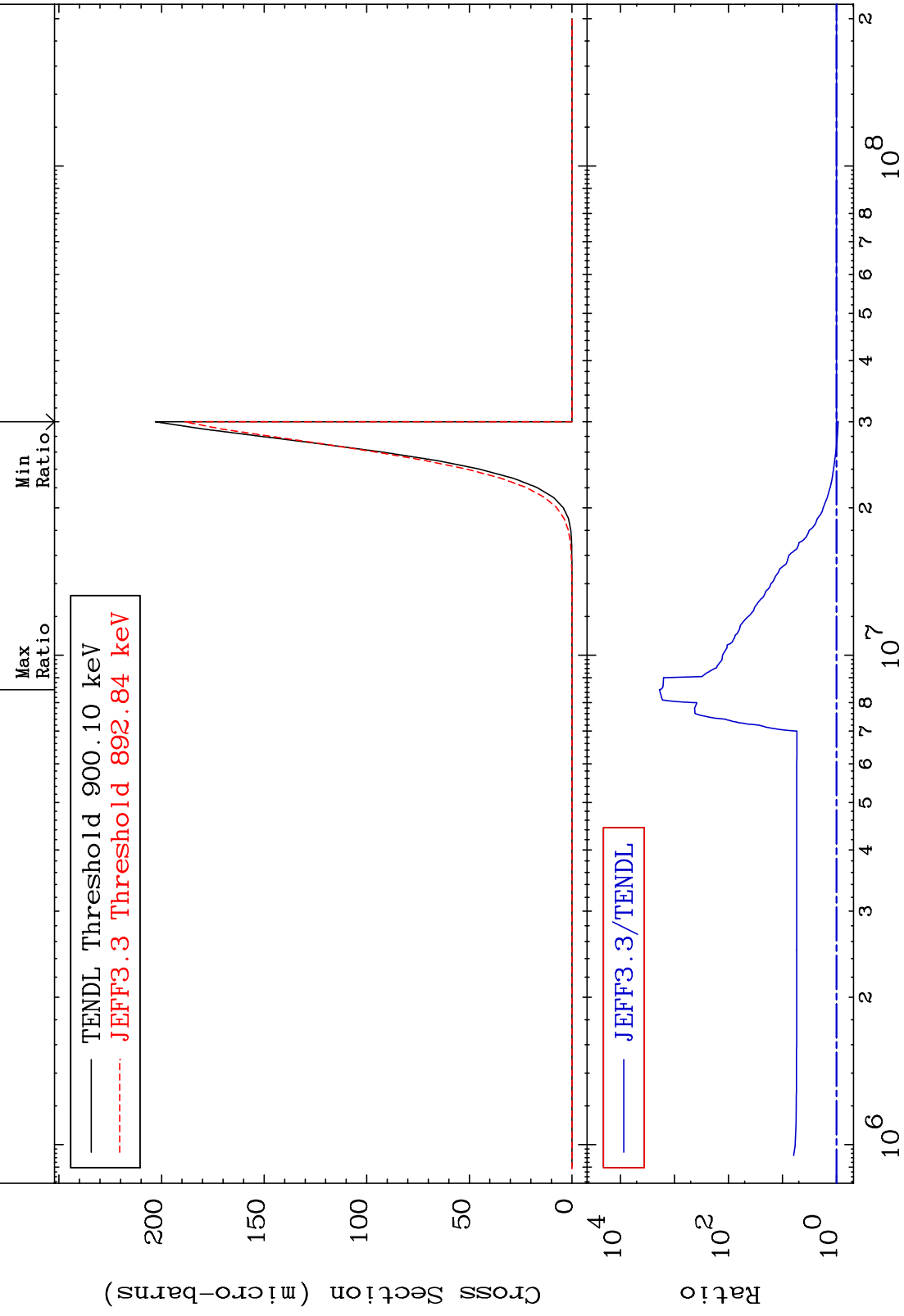
MAT 5425

(n,p) α

54-Xe-124

-7.020 To 9999. %

Cross Section



58

Incident Energy (eV)

54-Xe-124

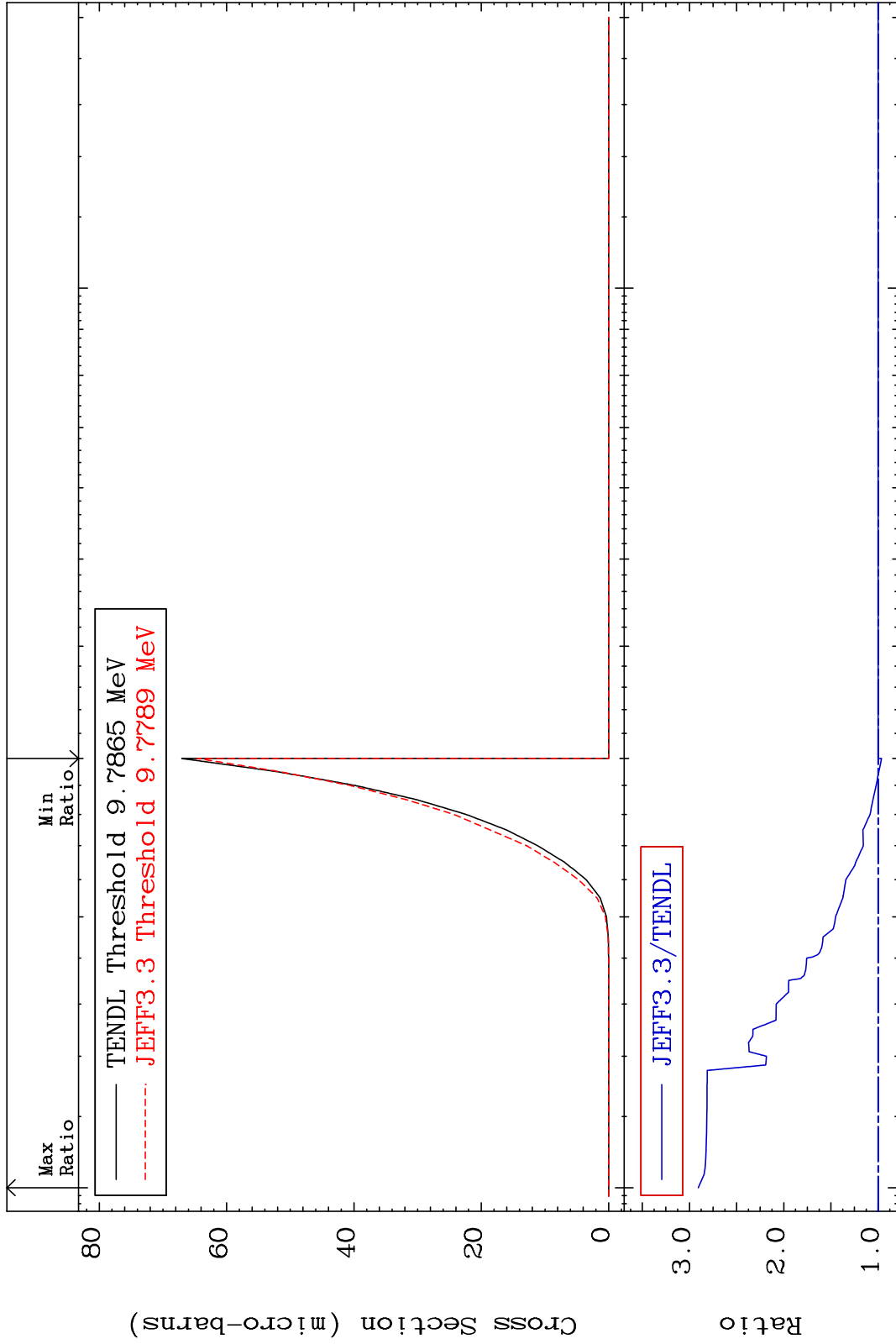
MAT 5425

(n,p) d

54-Xe-124

Cross Section

-3.685 To 190.6 %



10⁷

10⁸

59

Incident Energy (eV)

54-Xe-124

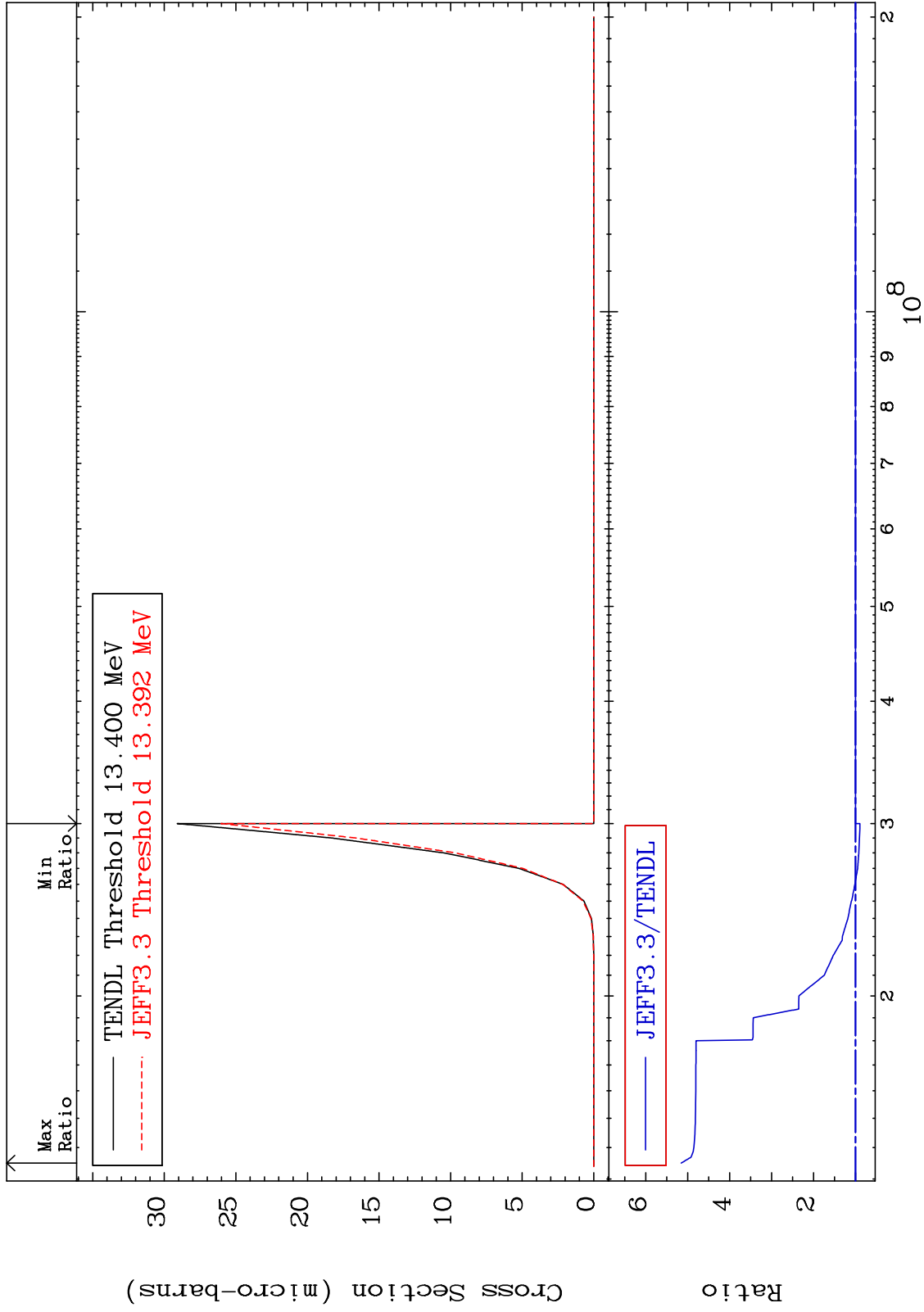
MAT 5425

(n,p) t

54-Xe-124

Cross Section

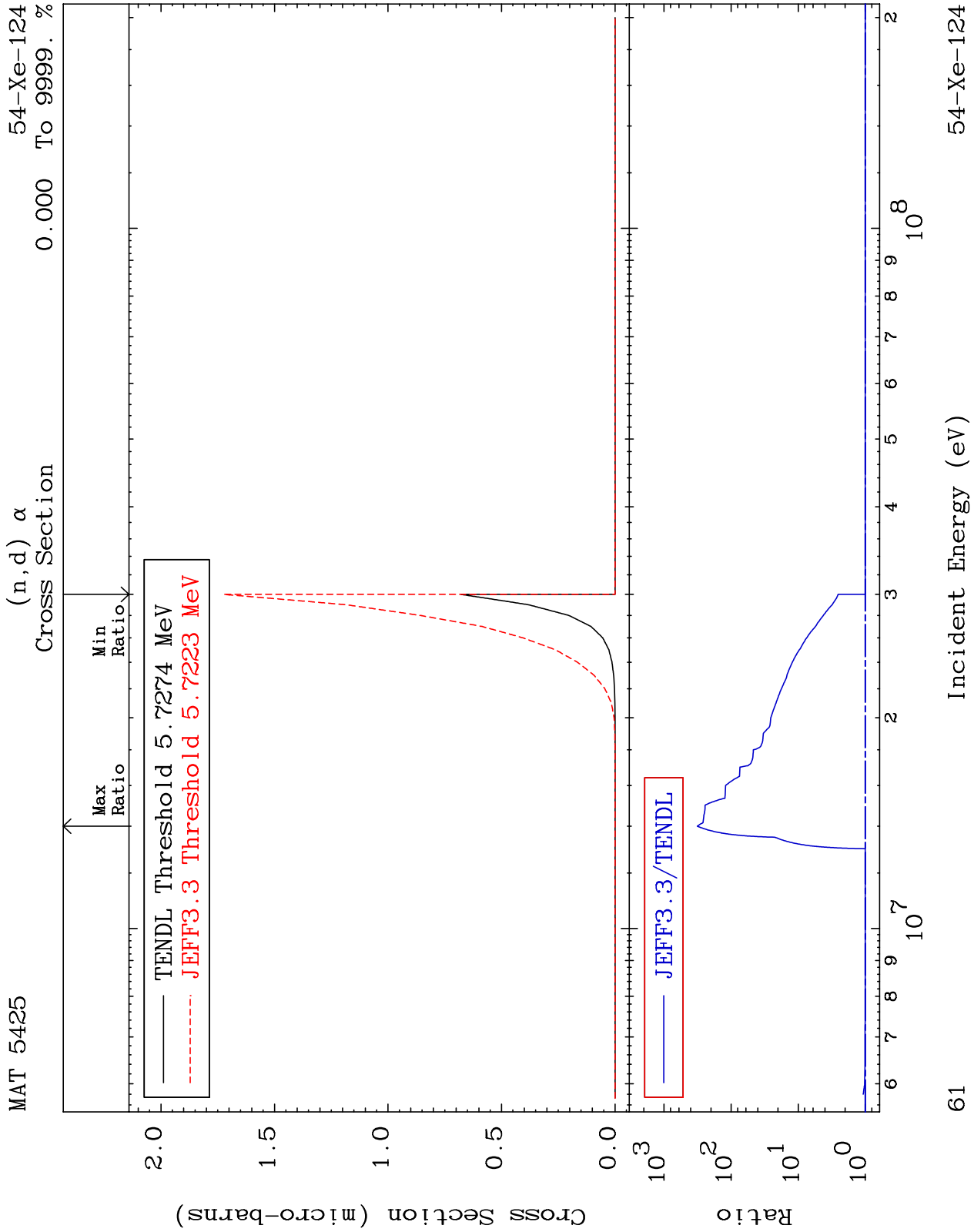
-10.55 To 415.4 %



60

Incident Energy (eV)

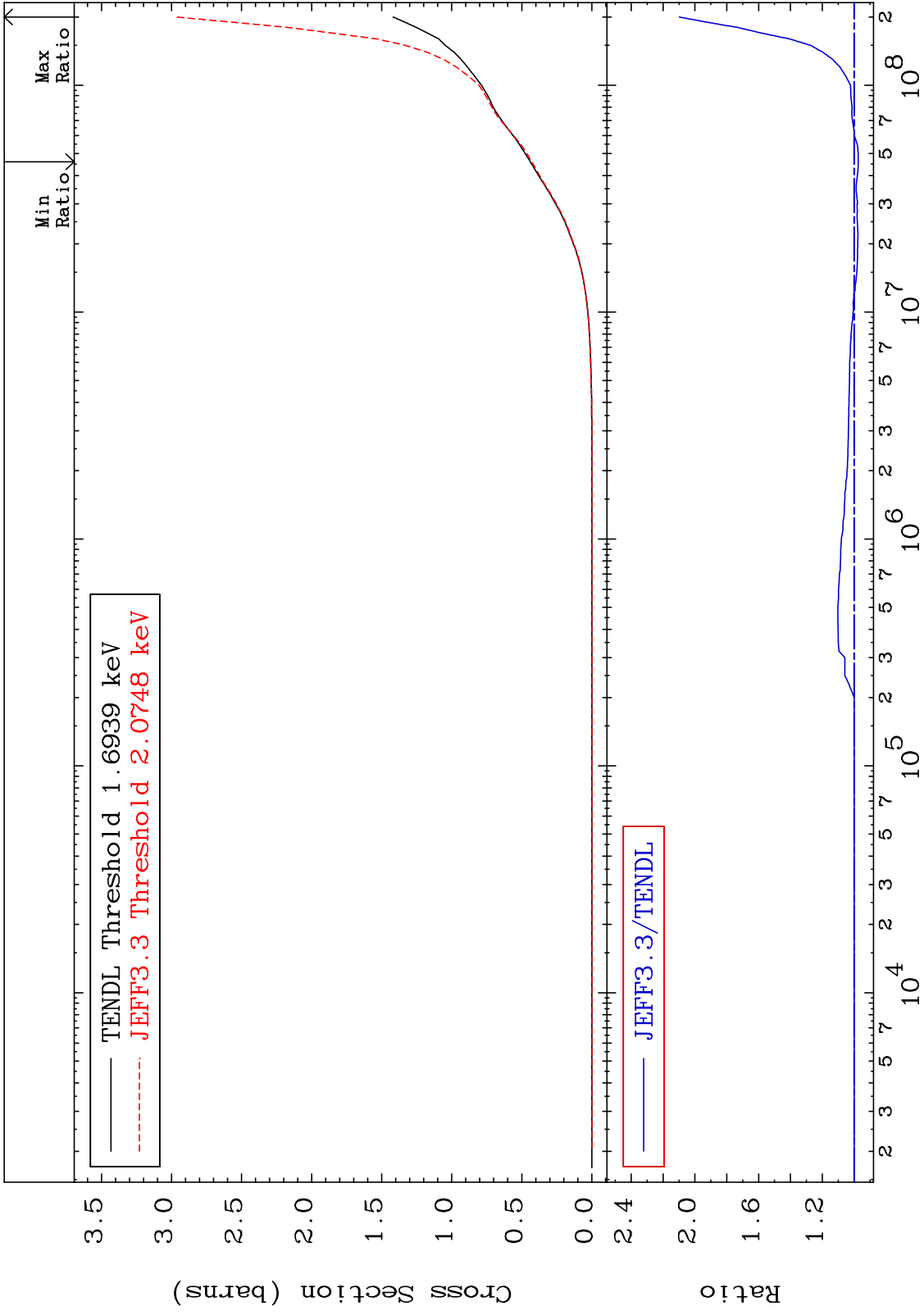
54-Xe-124



MAT 5425

Hydrogen Production
Cross Section

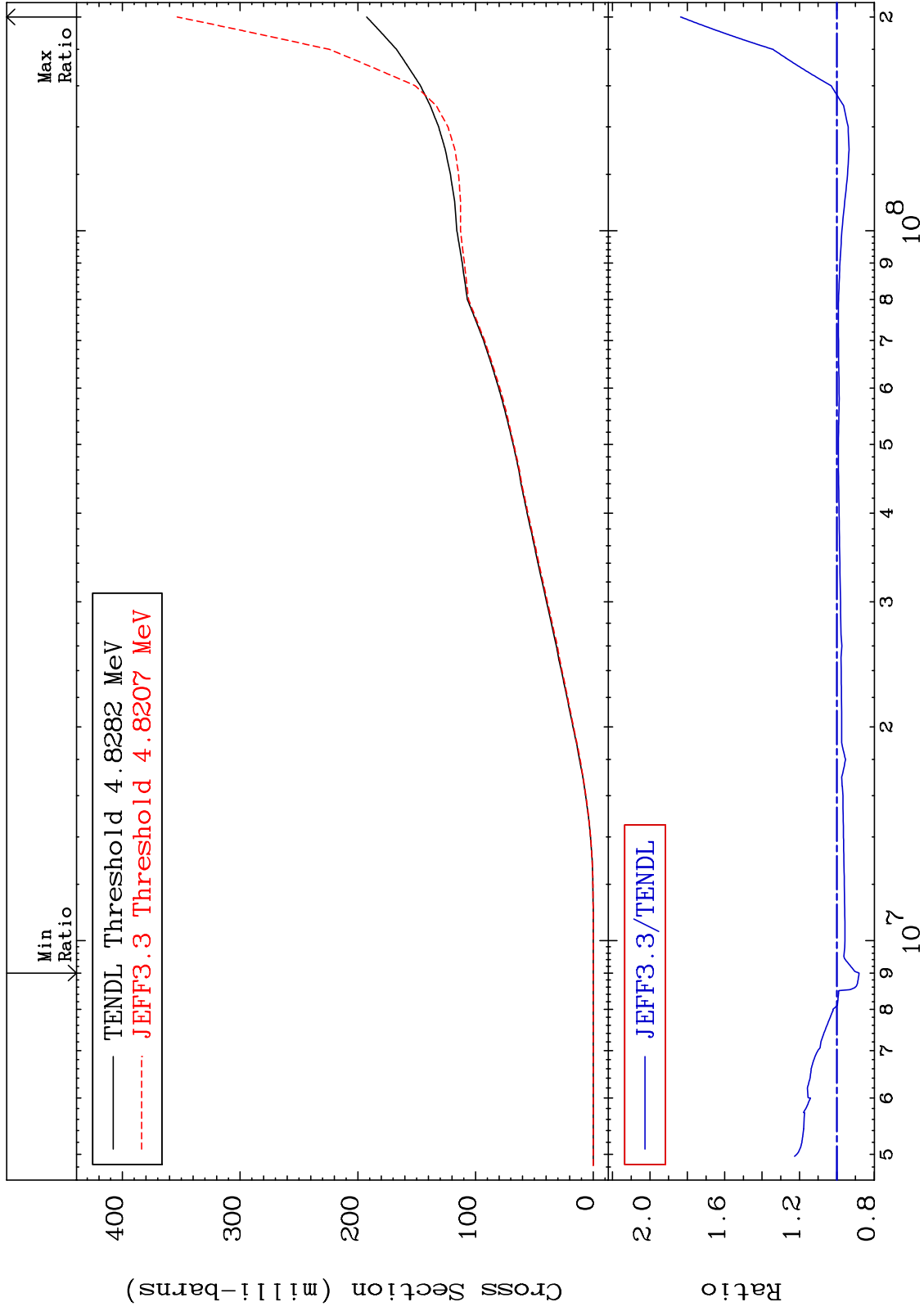
54-Xe-124
-2.567 To 109.8 %



MAT 5425

Deuterium Production
Cross Section

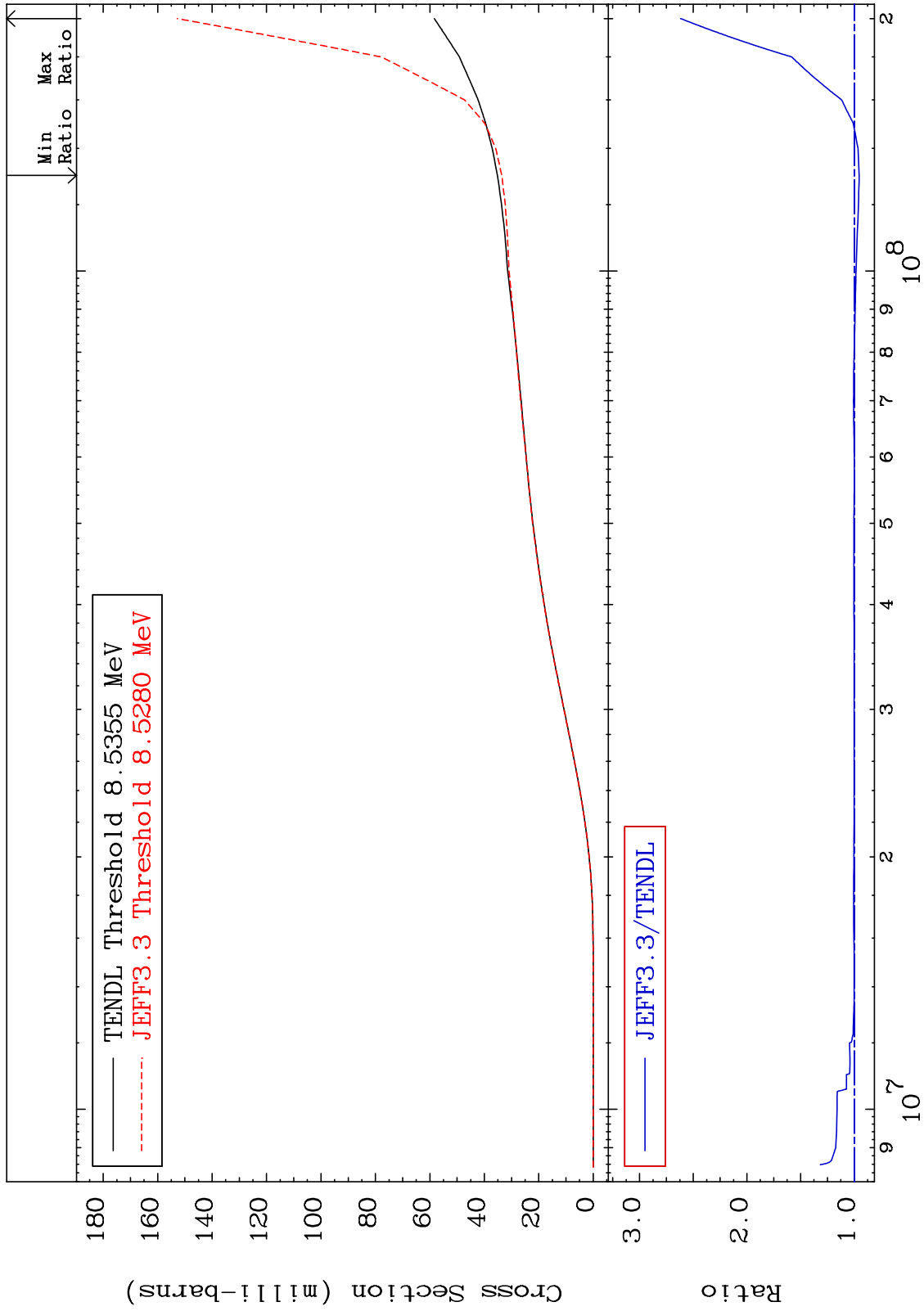
54-Xe-124
-11.95 To 83.58 %



MAT 5425

Tritium Production
Cross Section

54-Xe-124
-4.557 To 161.7 %



64

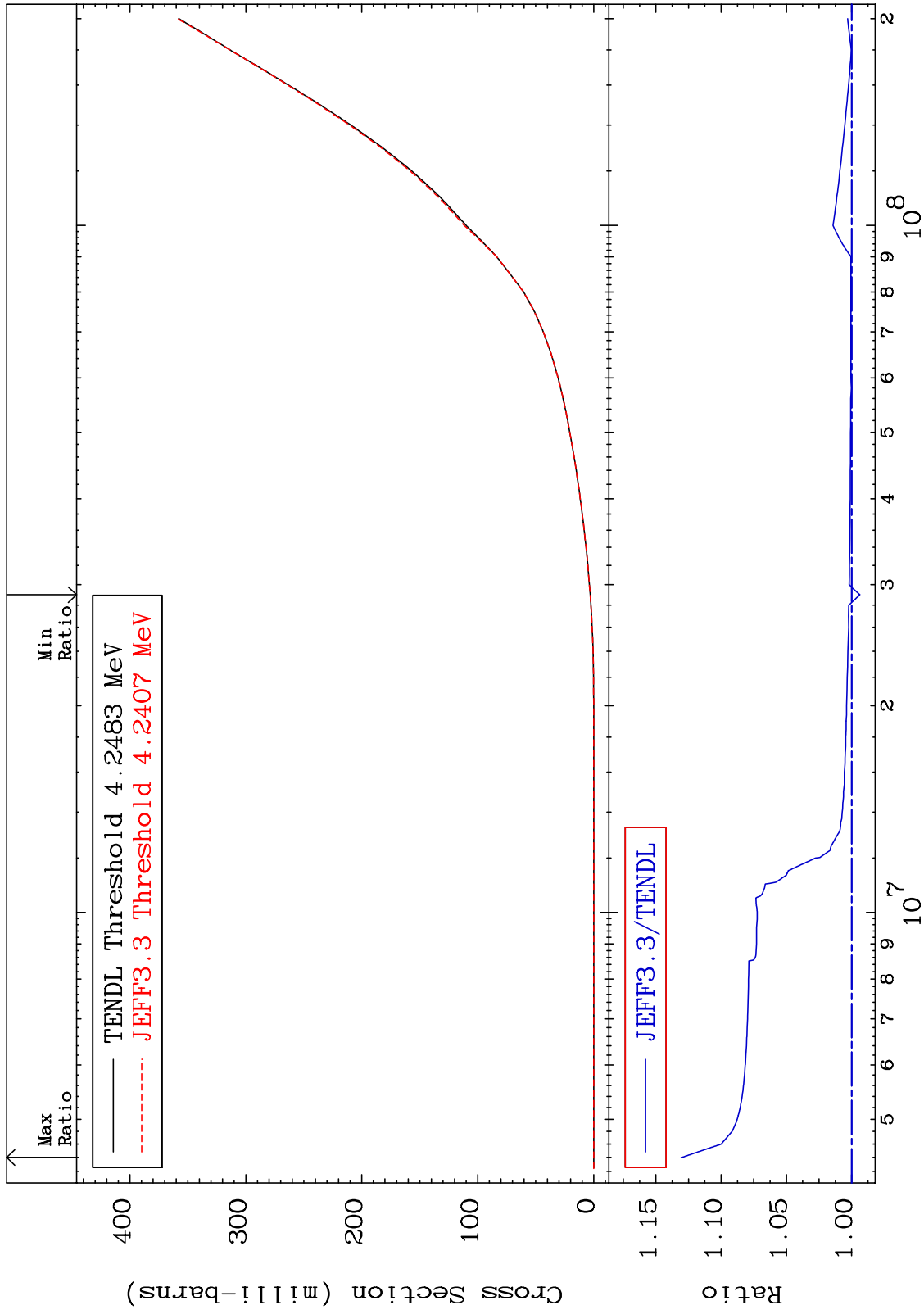
Incident Energy (eV)

54-Xe-124

MAT 5425

He-3 Production
Cross Section

54-Xe-124
-0.636 To 13.06 %



65

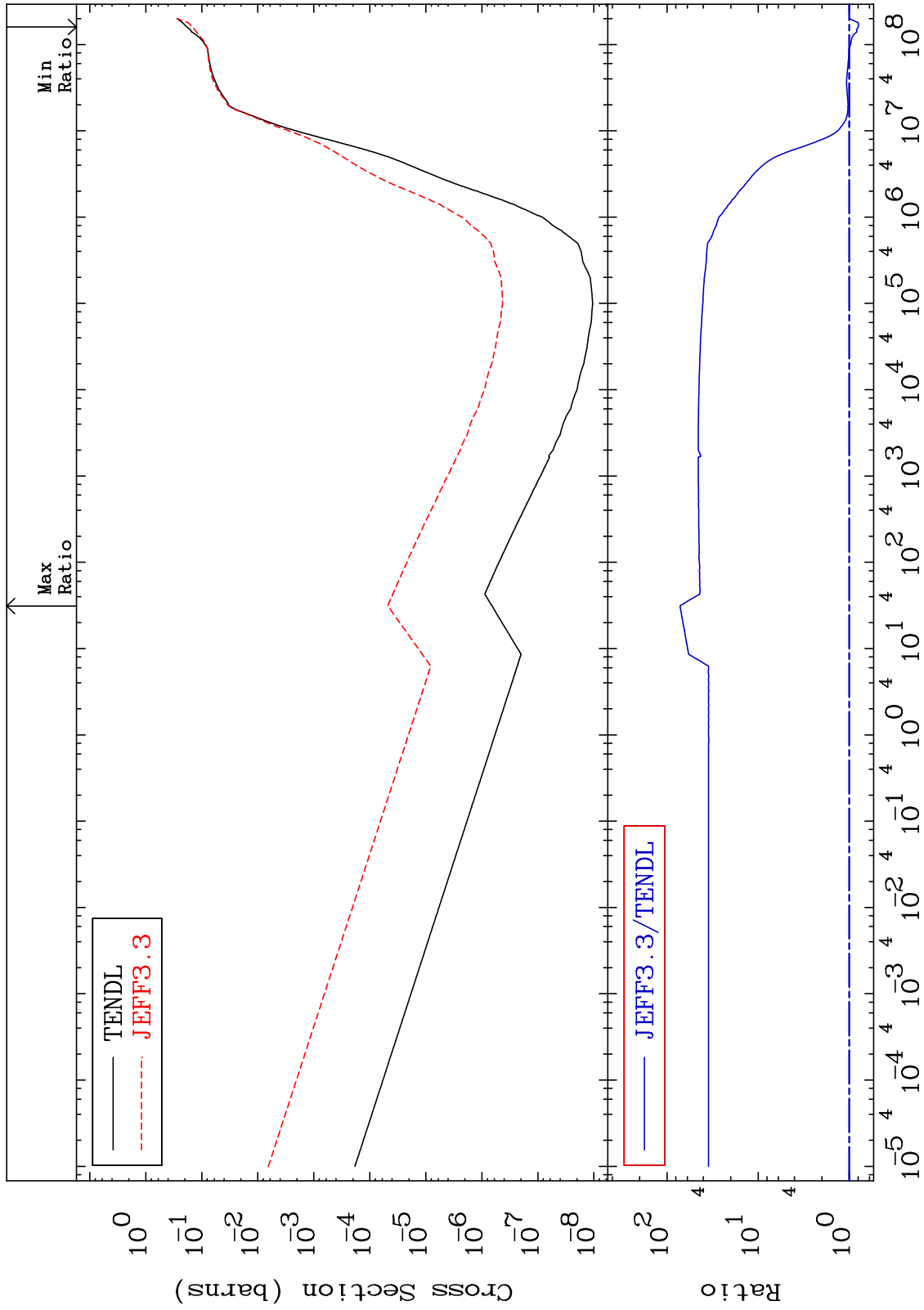
Incident Energy (eV)

54-Xe-124

MAT 5425

He-4 Production
Cross Section

54-Xe-124
-20.59 To 7111. %



66

Incident Energy (eV)

54-Xe-124

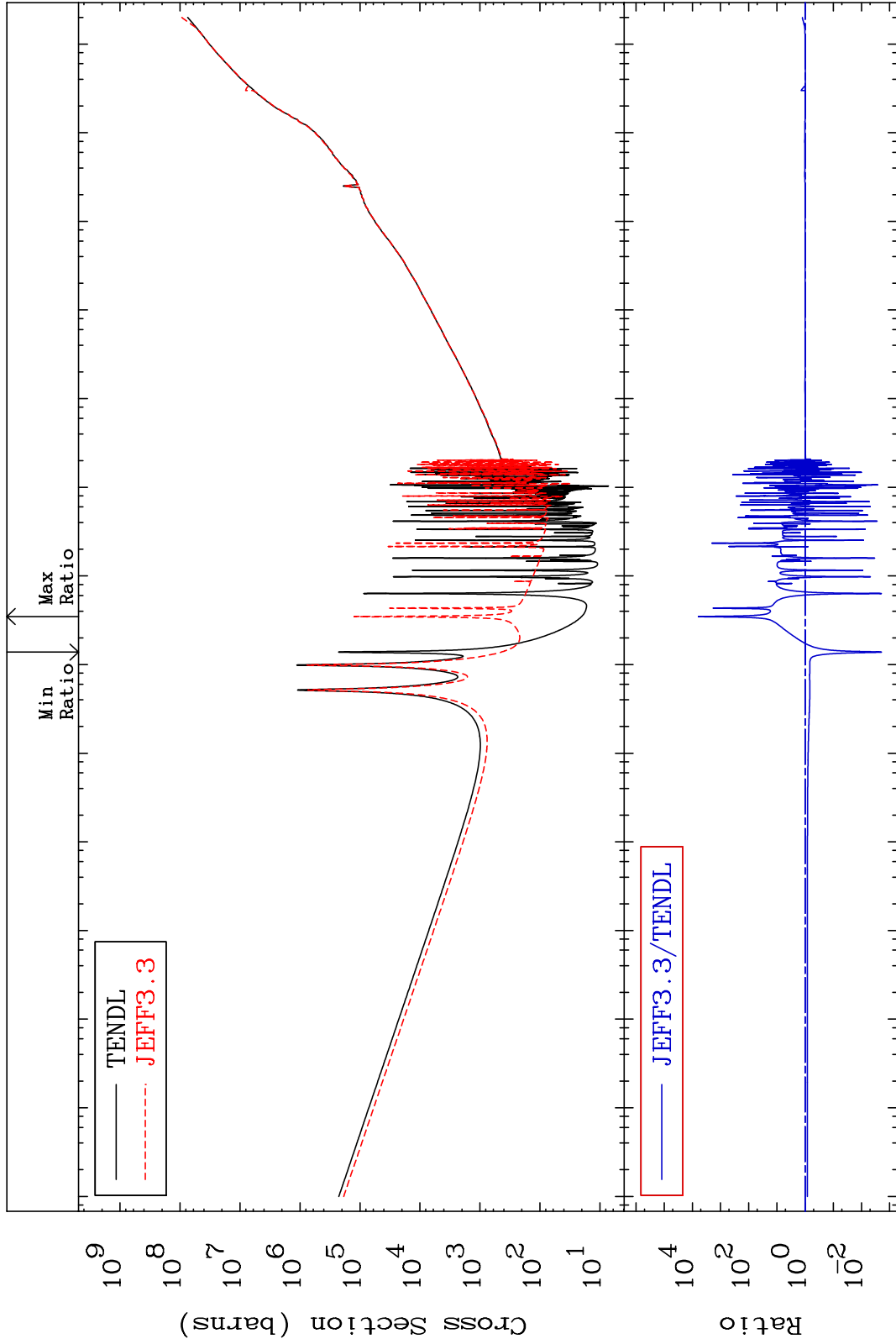
MAT 5425

Kerma total (eV-barns)

54-Xe-124

-99.81 To 9999. %

Cross Section



Incident Energy (eV)

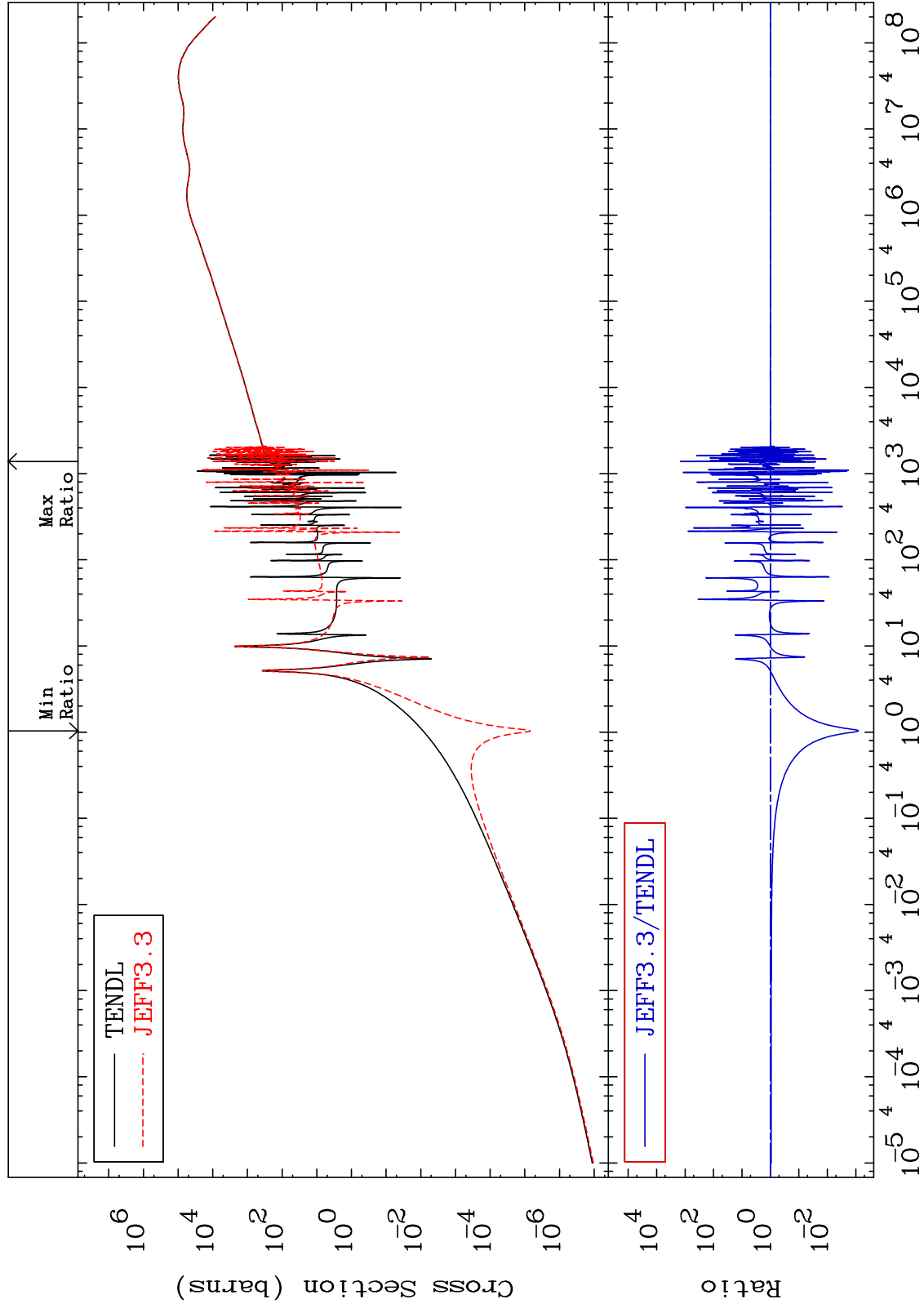
67

54-Xe-124

MAT 5425

Kerma elastic
Cross Section

54-Xe-124
-99.92 To 9999. %



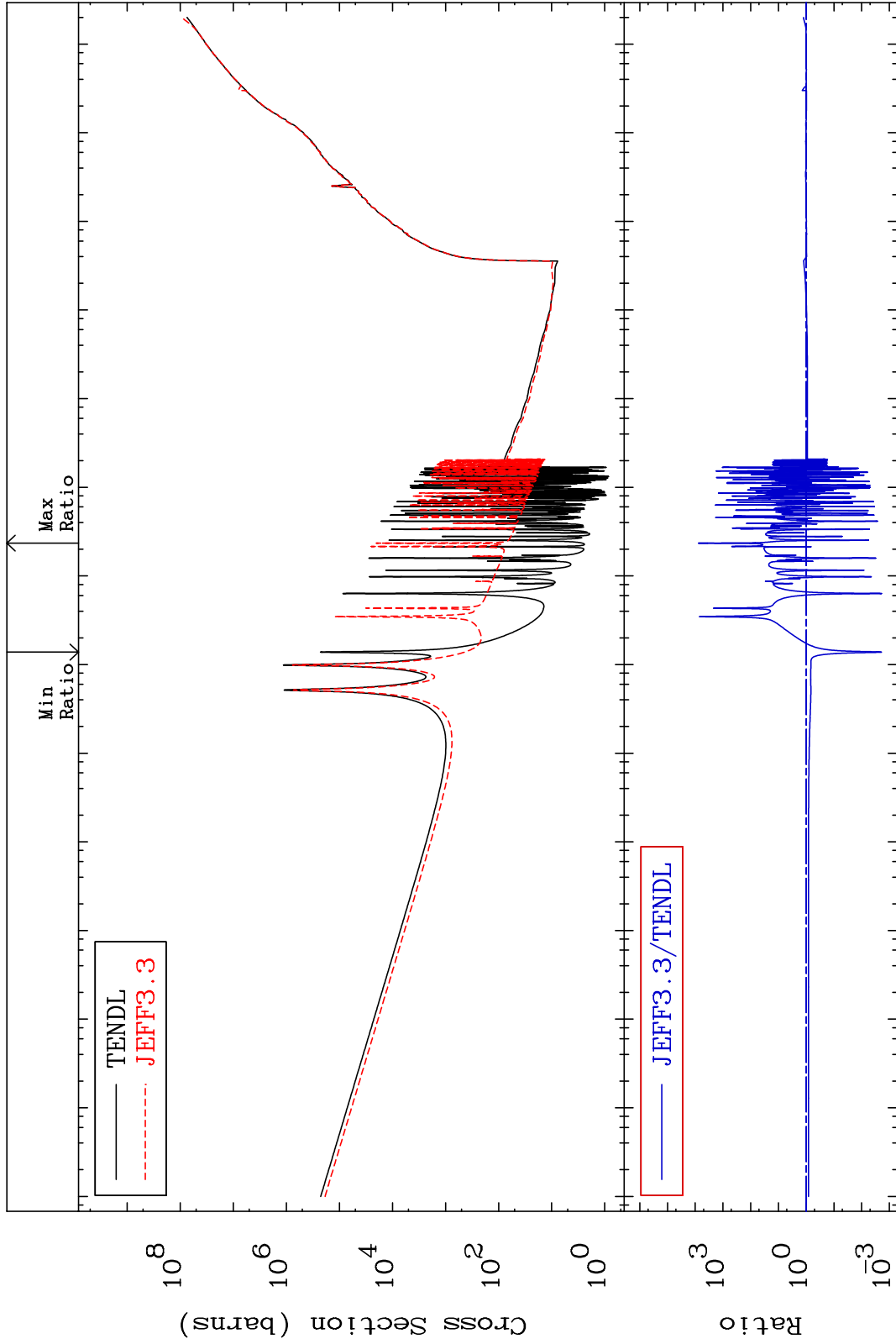
MAT 5425

Kerma non-elastic (all but mt2)

54-Xe-124

-99.81 To 9999. %

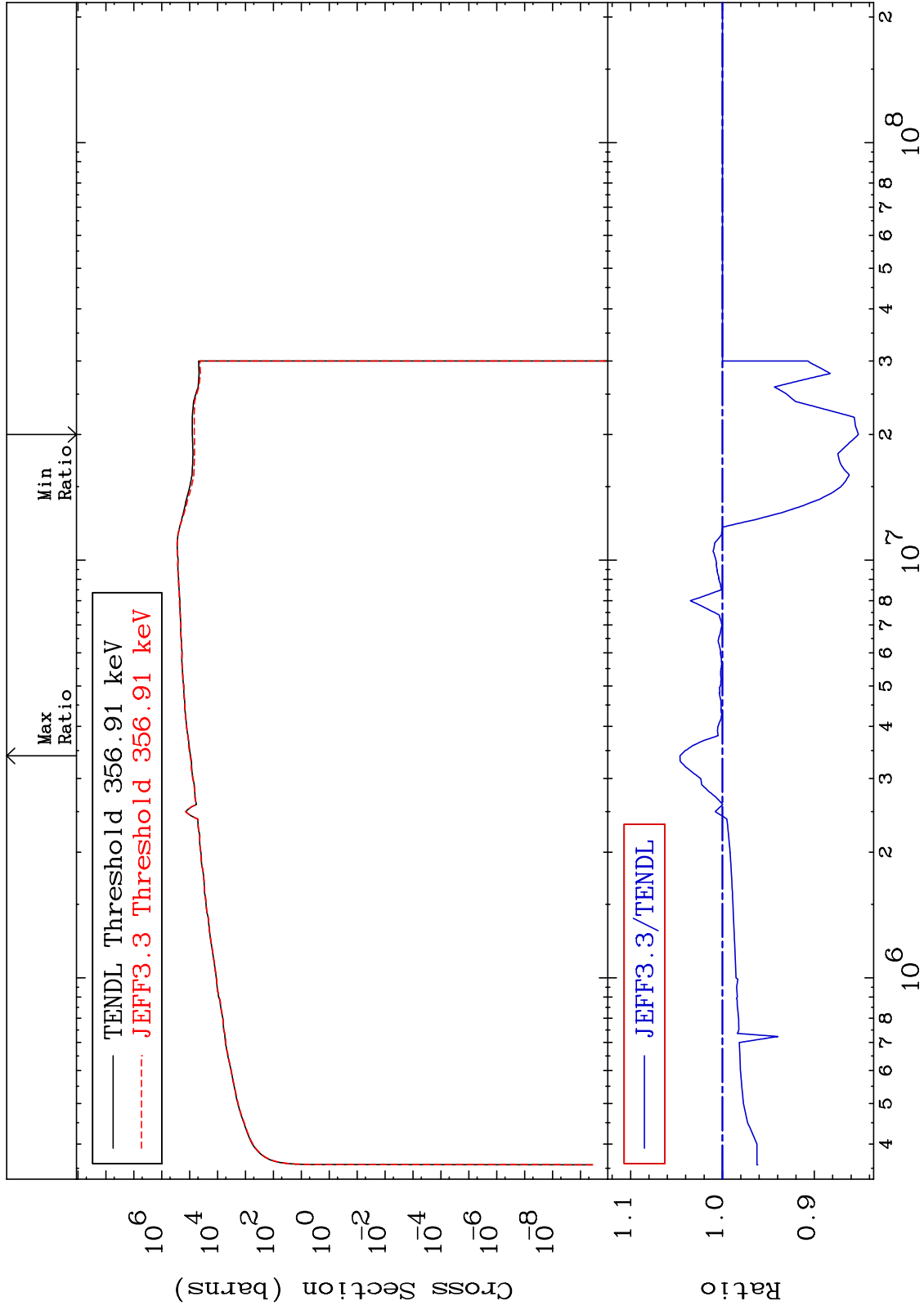
Cross Section



MAT 5425

Kerma inelastic (mt51-91)
Cross Section

54-Xe-124
-14.80 To 4.618 %



70

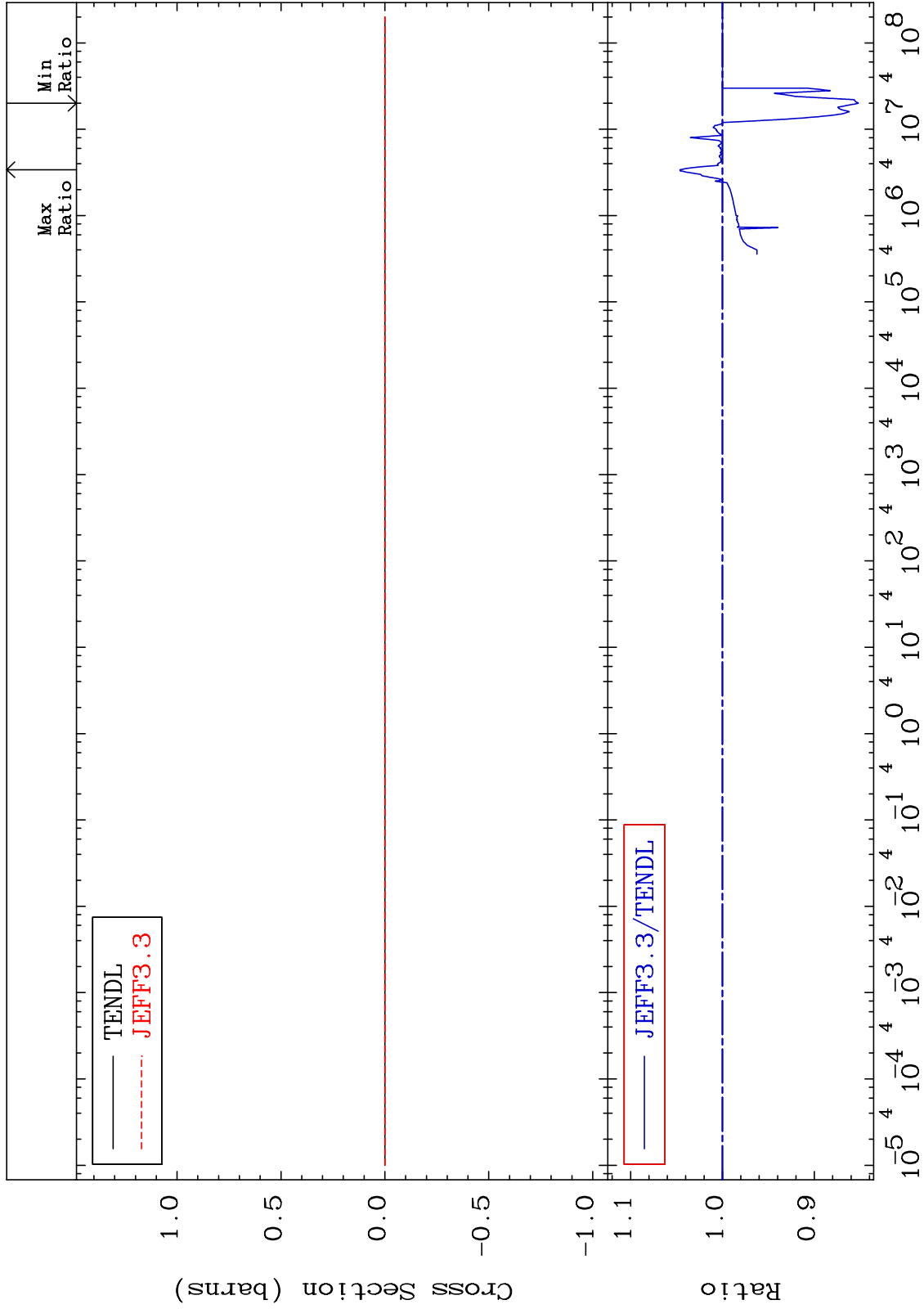
Incident Energy (eV)

54-Xe-124

MAT 5425

Kerma fission (mt18 or mt19-20-21-38)
Cross Section

54-Xe-124
-14.80 To 4.618 %



71

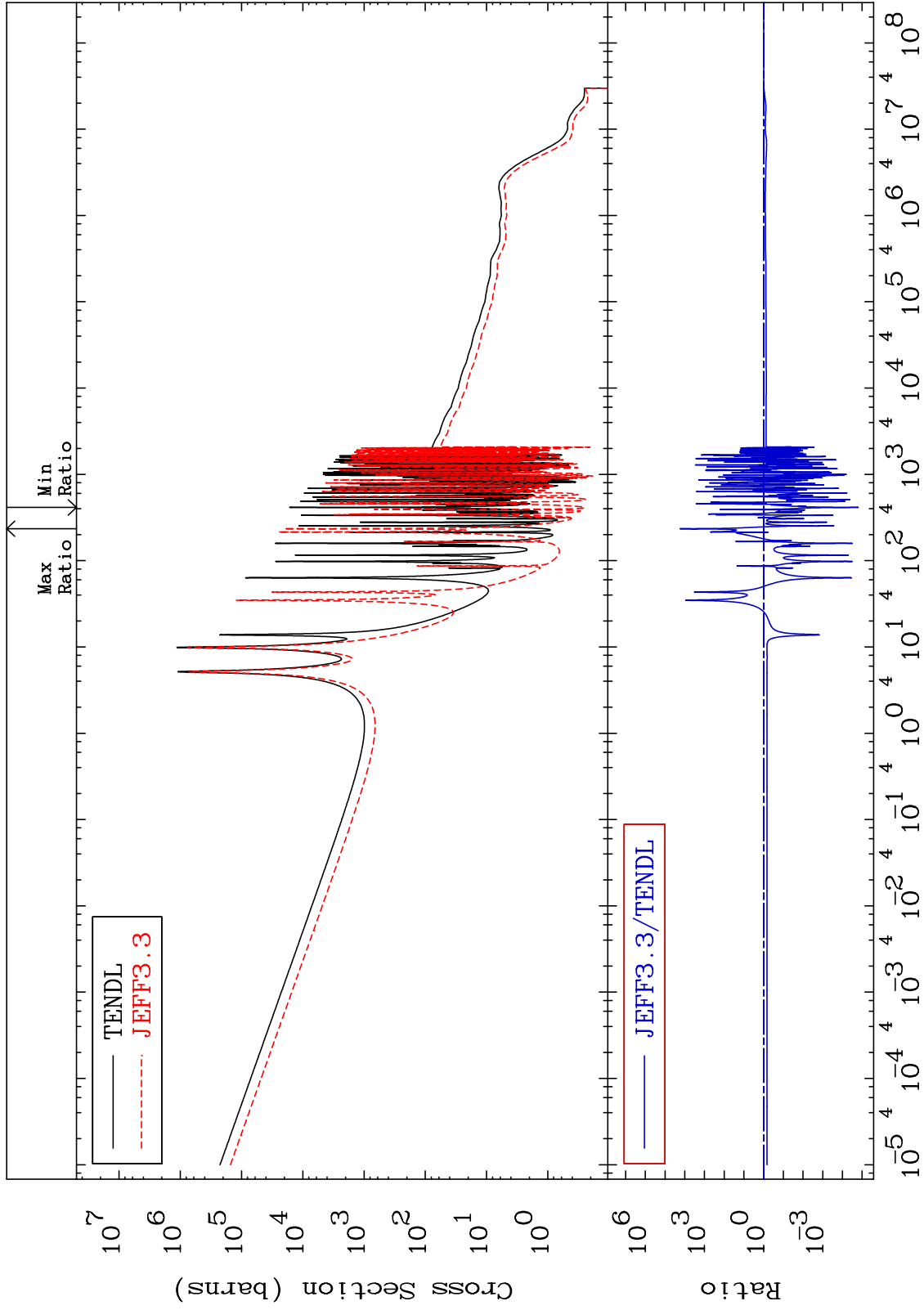
Incident Energy (eV)

54-Xe-124

MAT 5425

Kerma capture (mt102)
Cross Section

54-Xe-124
-100.0 To 9999. %



72

Incident Energy (eV)

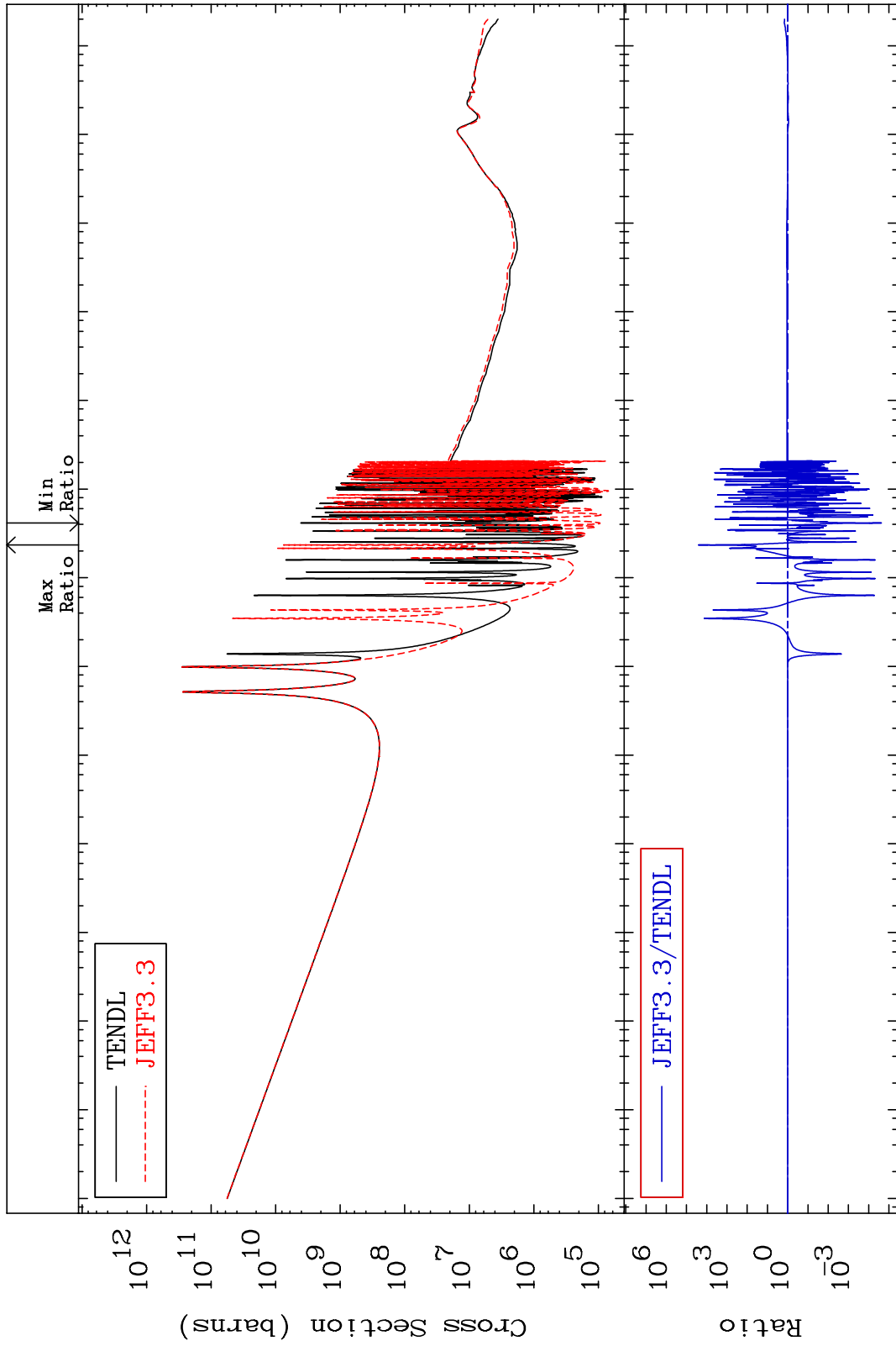
54-Xe-124

MAT 5425

Total photon (eV-barns)

54-Xe-124

-100.0 To 9999. %



73

Incident Energy (eV)

54-Xe-124

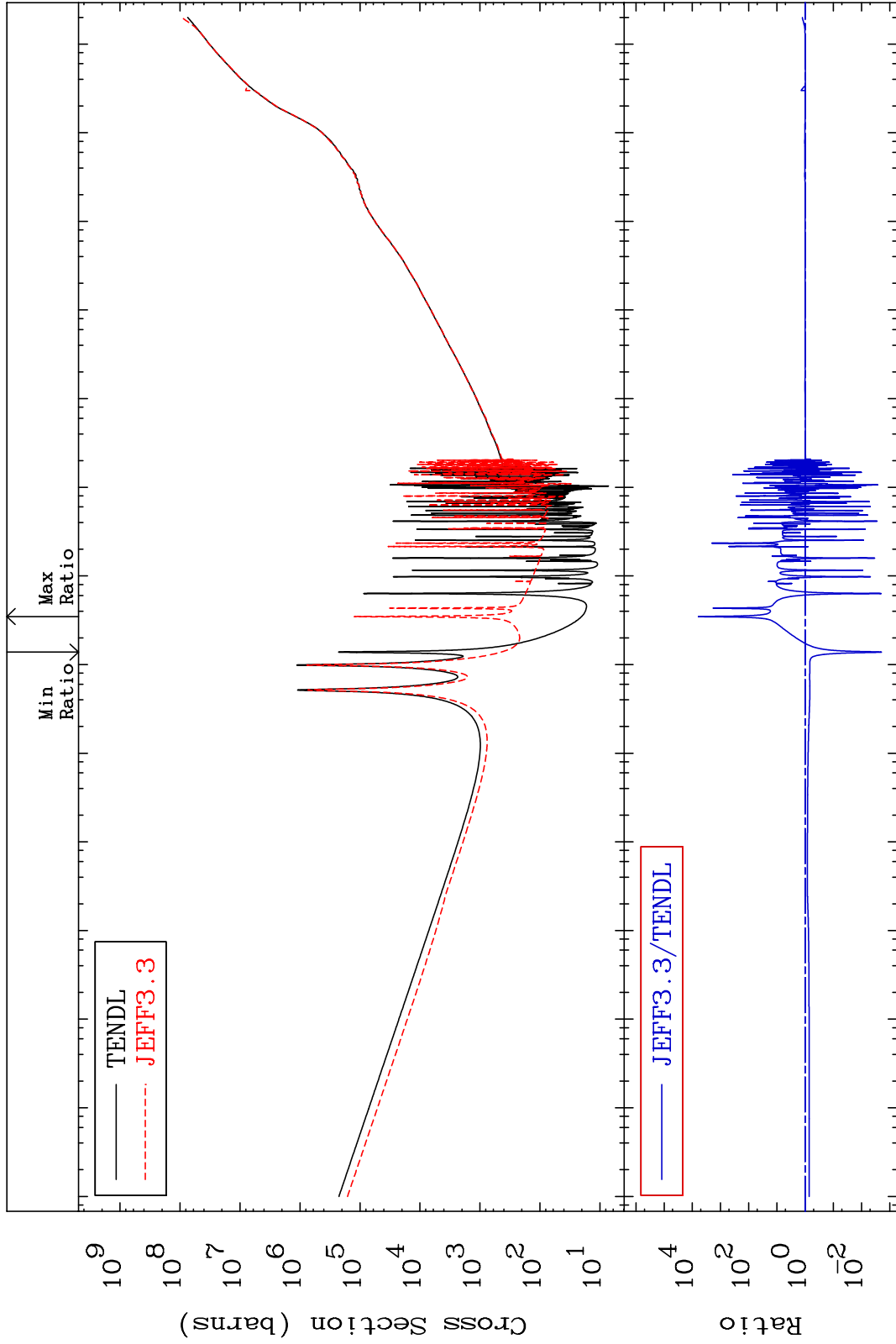
MAT 5425

Total kinematic kerma (high limit)

54-Xe-124

-99.81 To 9999. %

Cross Section



74

Incident Energy (eV)

54-Xe-124

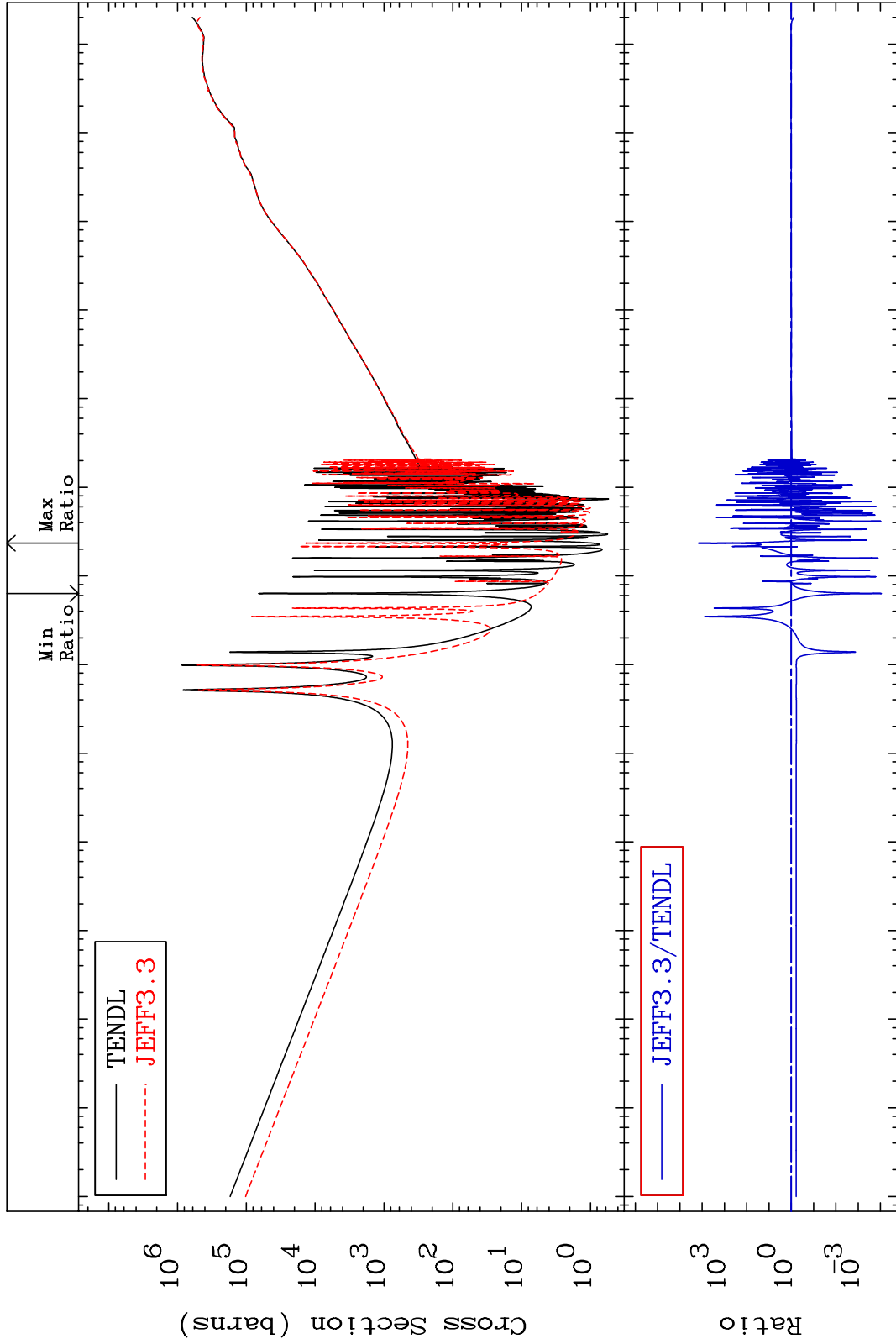
MAT 5425

Dpa total (eV-barns)

54-Xe-124

-99.99 To 9999. %

Cross Section



Incident Energy (eV)

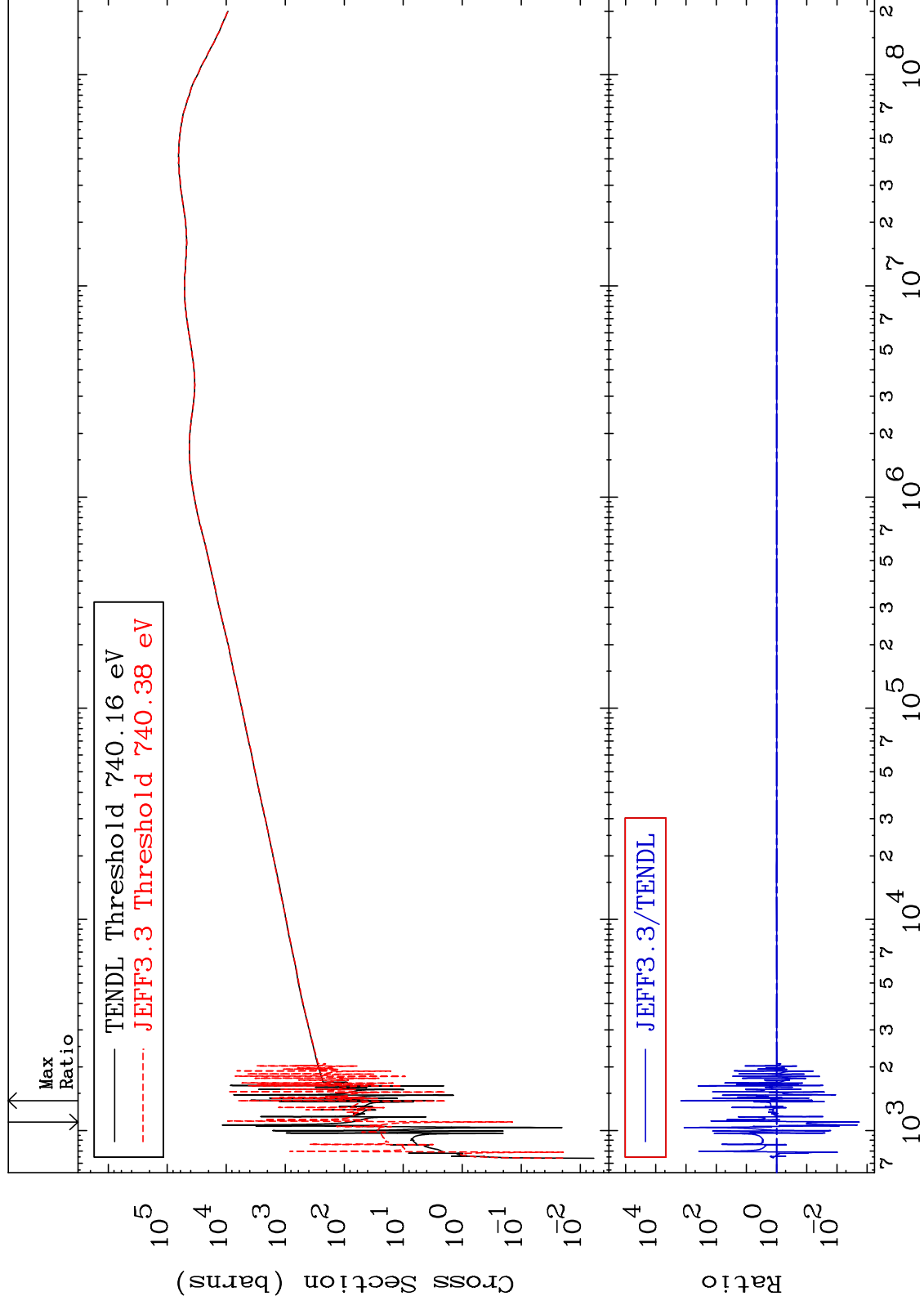
54-Xe-124

75

MAT 5425

Dpa elastic (mt2)
Cross Section

54-Xe-124
-99.82 To 9999. %



76

Incident Energy (eV)

54-Xe-124

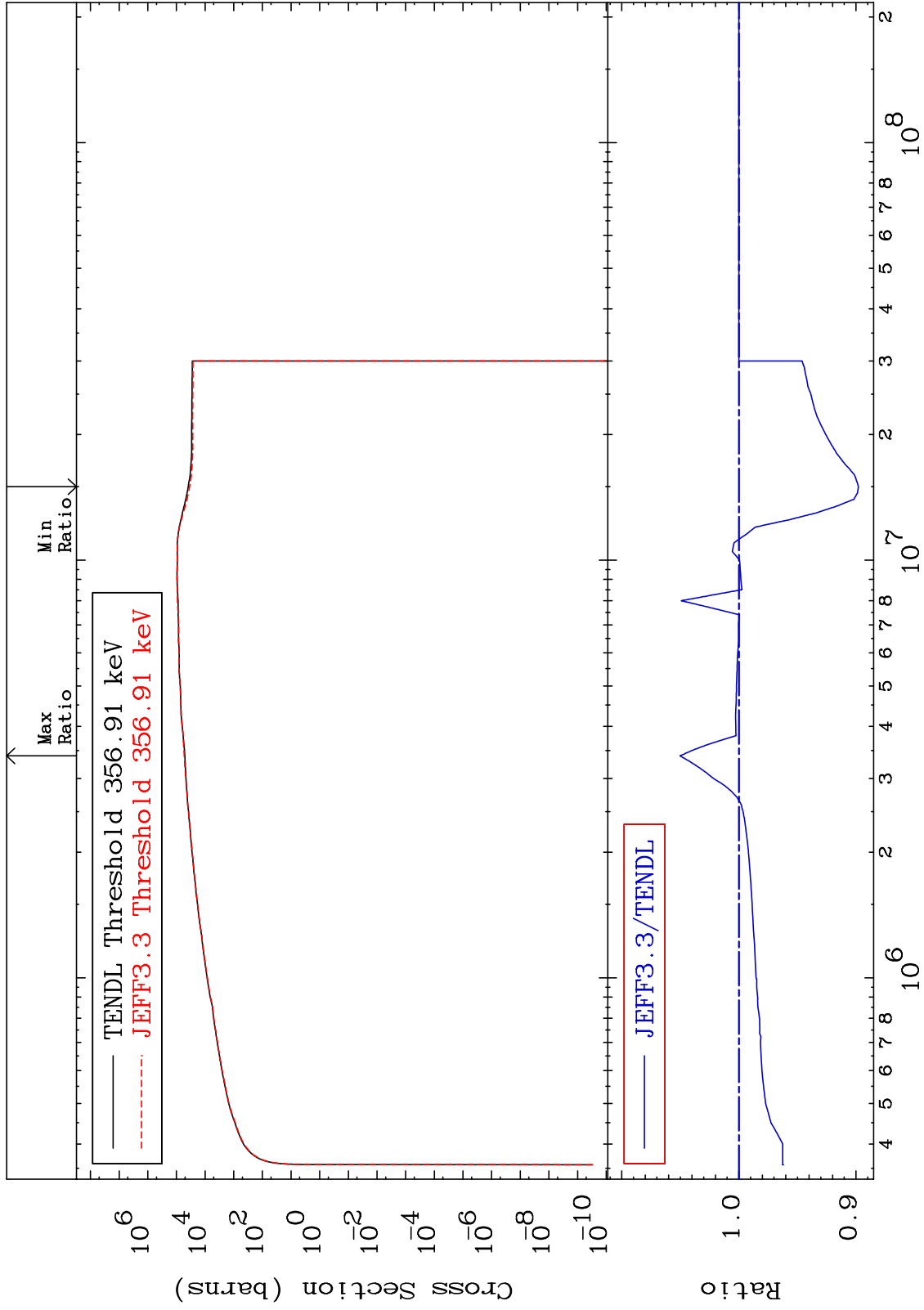
MAT 5425

Dpa inelastic (mt51-91)

54-Xe-124

-10.21 To 5.026 %

Cross Section



77

Incident Energy (eV)

54-Xe-124

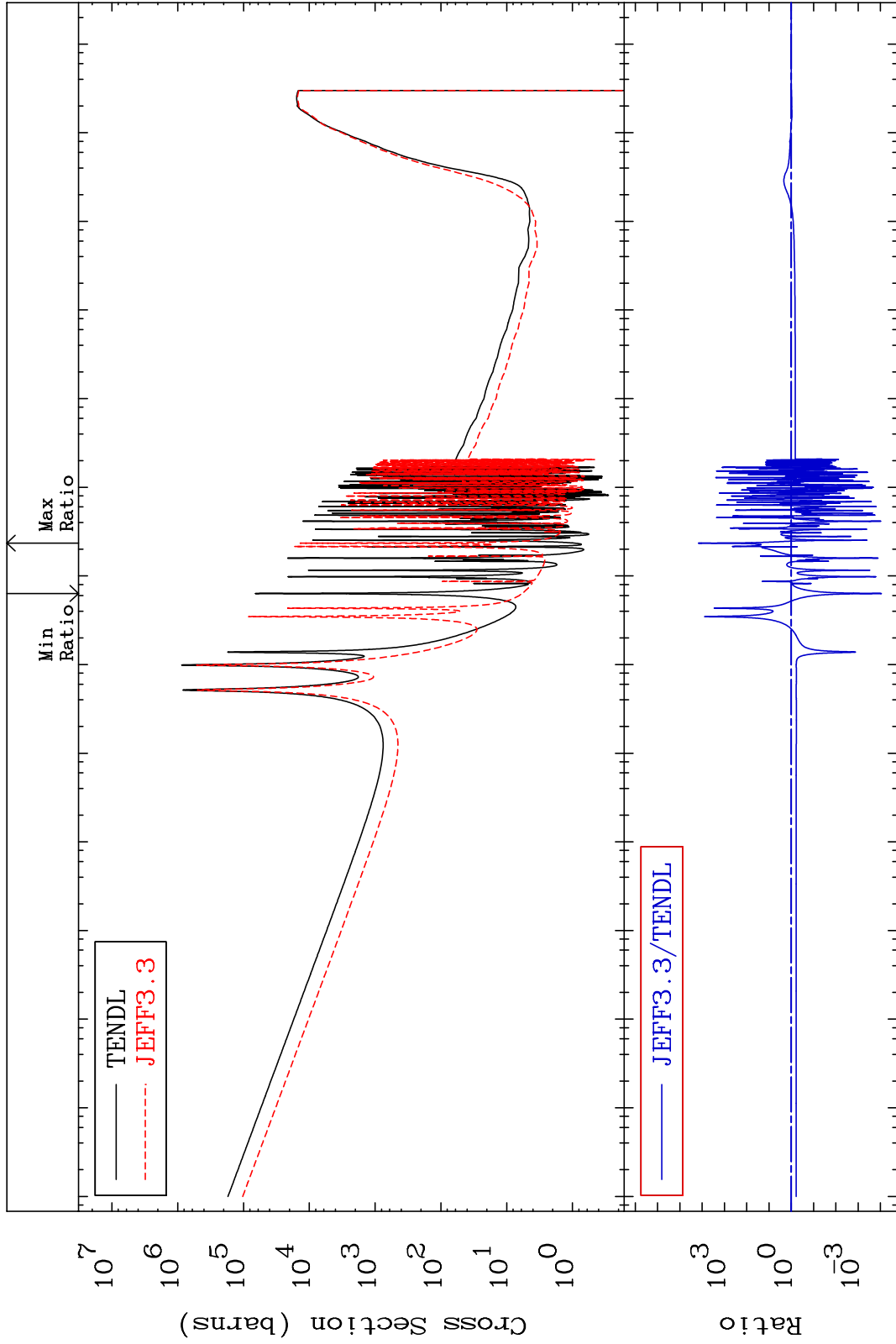
MAT 5425

Dpa disappearance (mt102 -120)

54-Xe-124

-99.99 To 9999. %

Cross Section



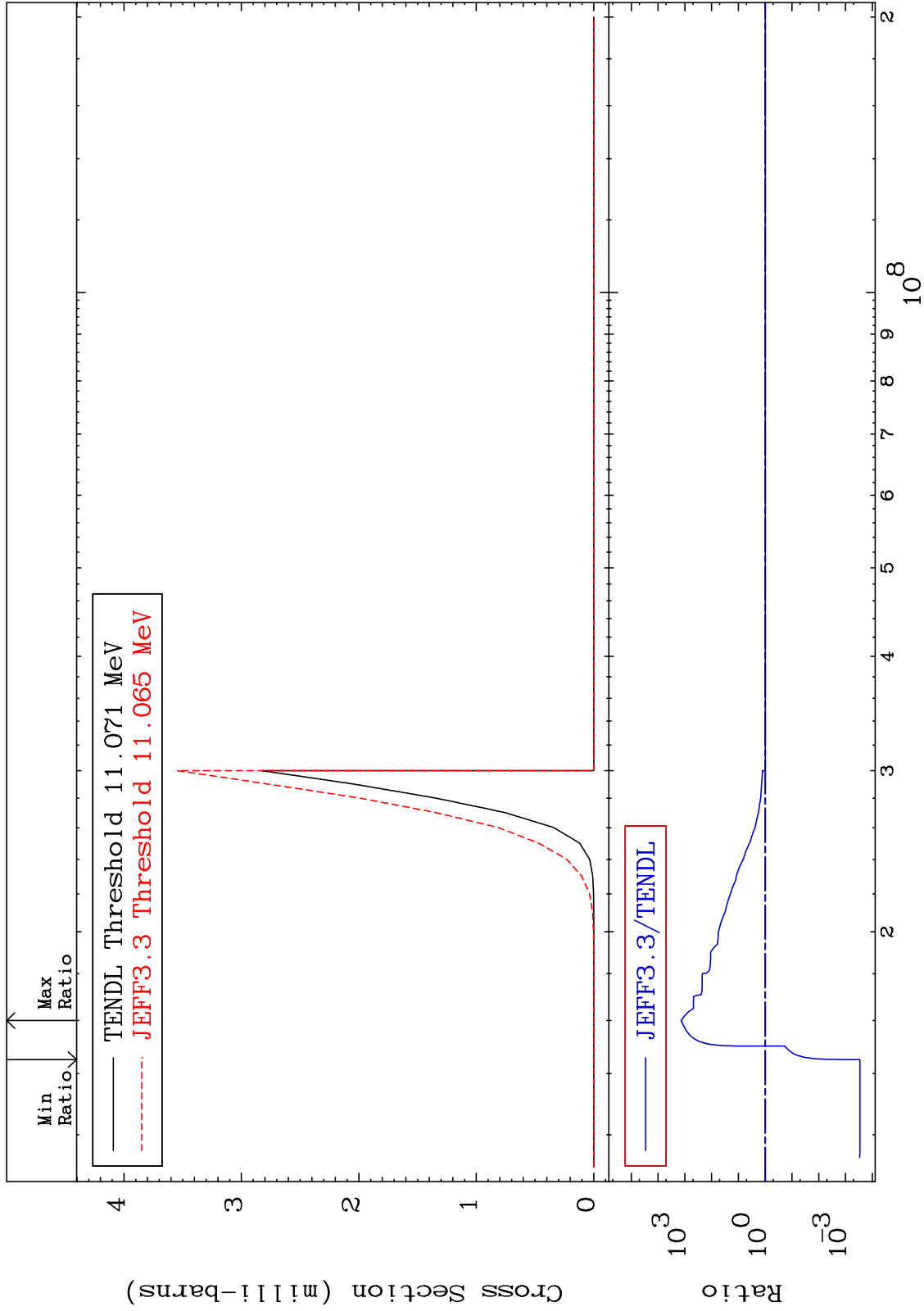
78

Incident Energy (eV)

54-Xe-124

MAT 5425

(n,2n) α :52-Te-119g 54-Xe-124
Radionuclide Production Cross Section -99.97 To 9999. %

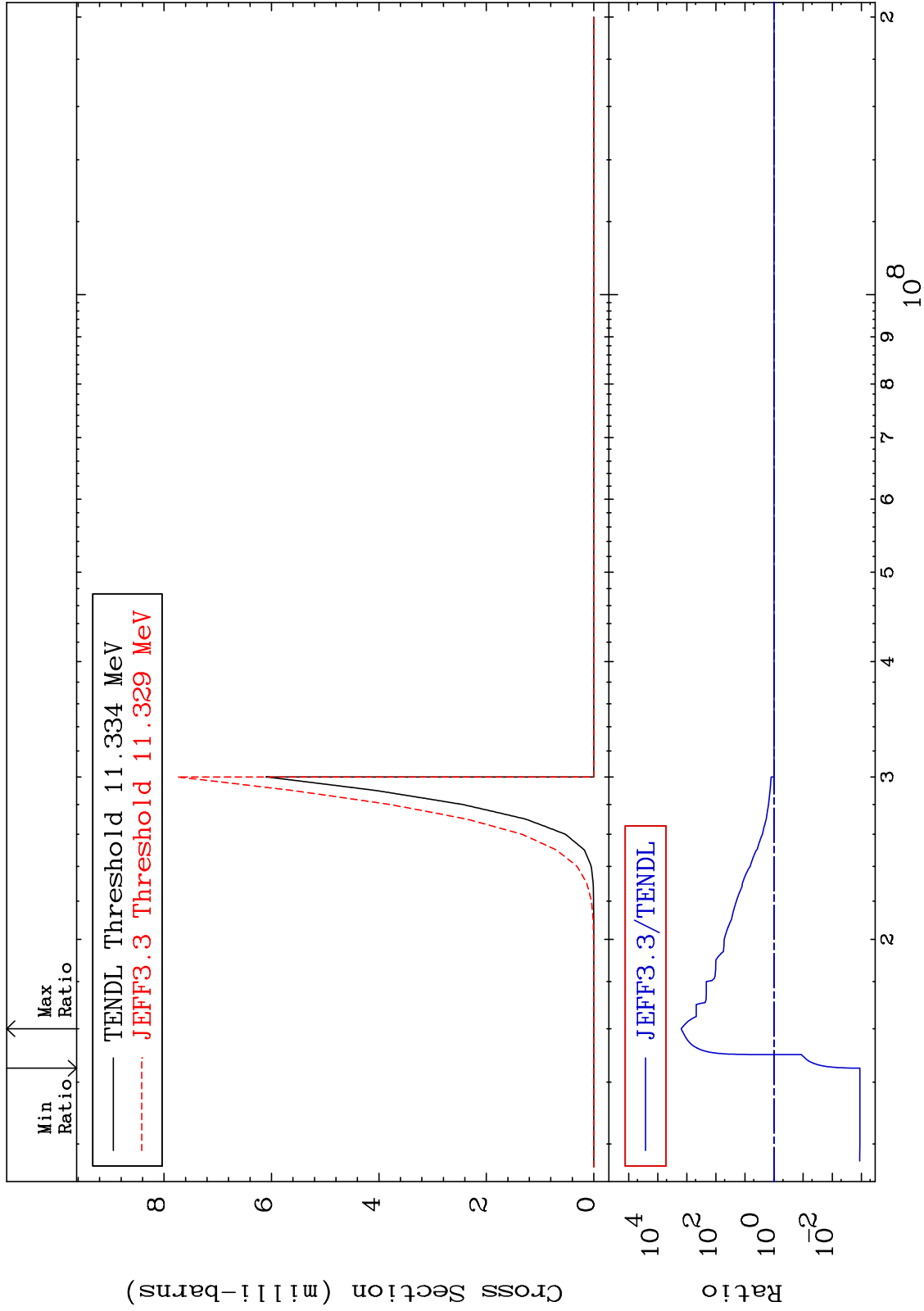


MAT 5425

(n,2n) α :52-Te-119m2

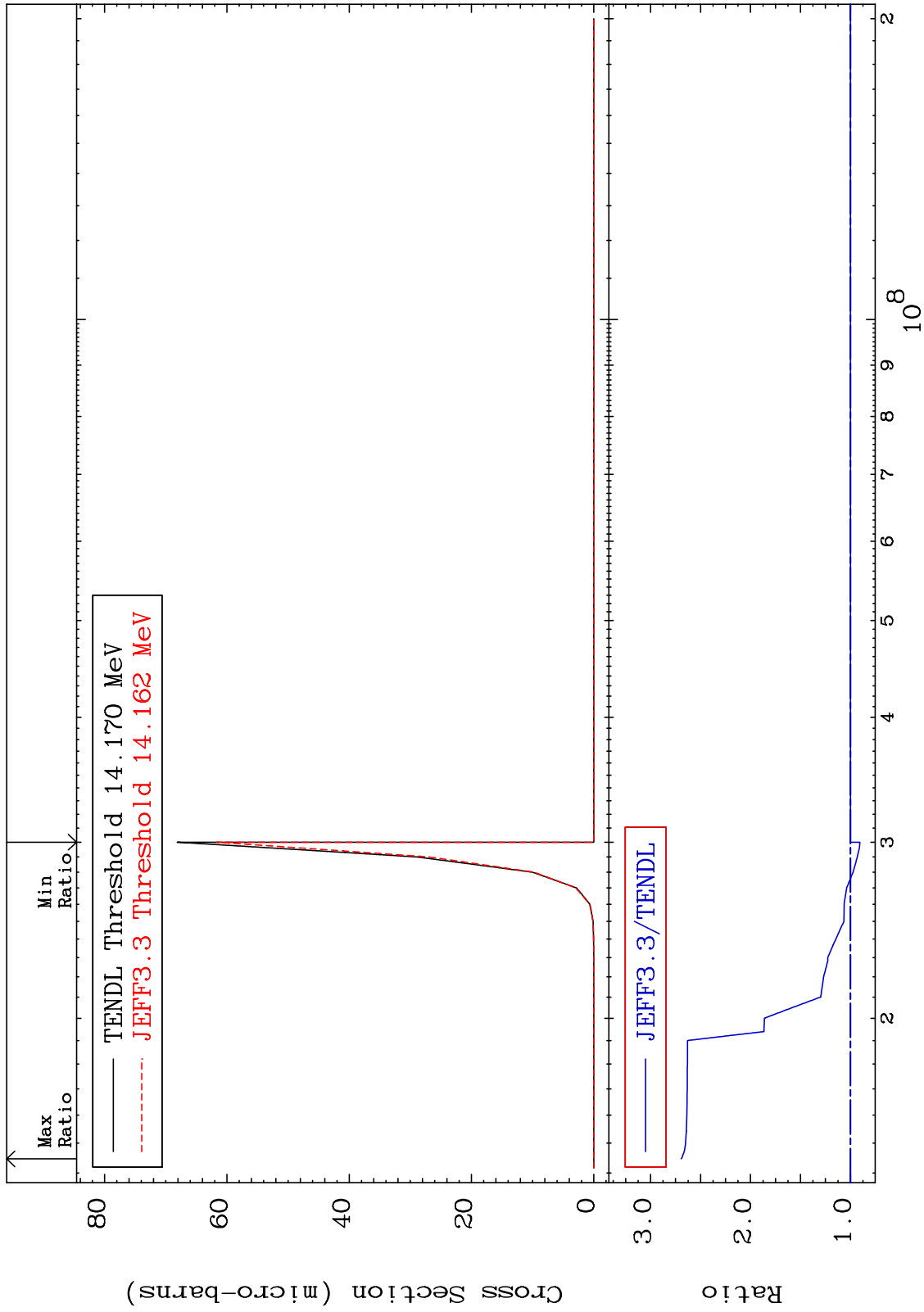
54-Xe-124

Radionuclide Production Cross Section -99.89 To 9999. %



MAT 5425

(n, n') He-3:52-Te-121g 54-Xe-124
Radionuclide Production Cross Section -9.485 To 169.3 %

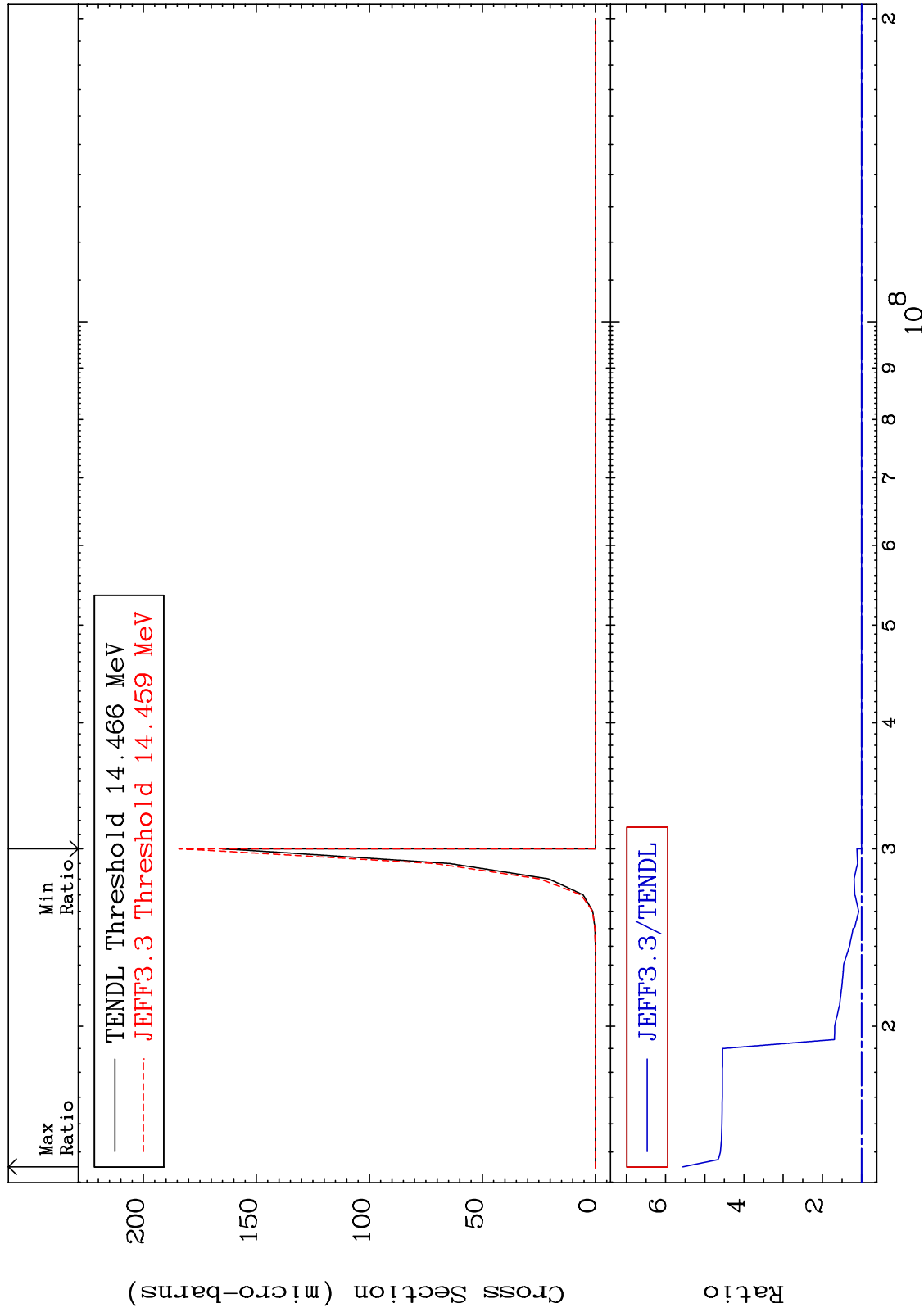


MAT 5425

(n, n') He-3:52-Te-121m2

54-Xe-124

Radionuclide Production Cross Section 0.000 To 455.9 %



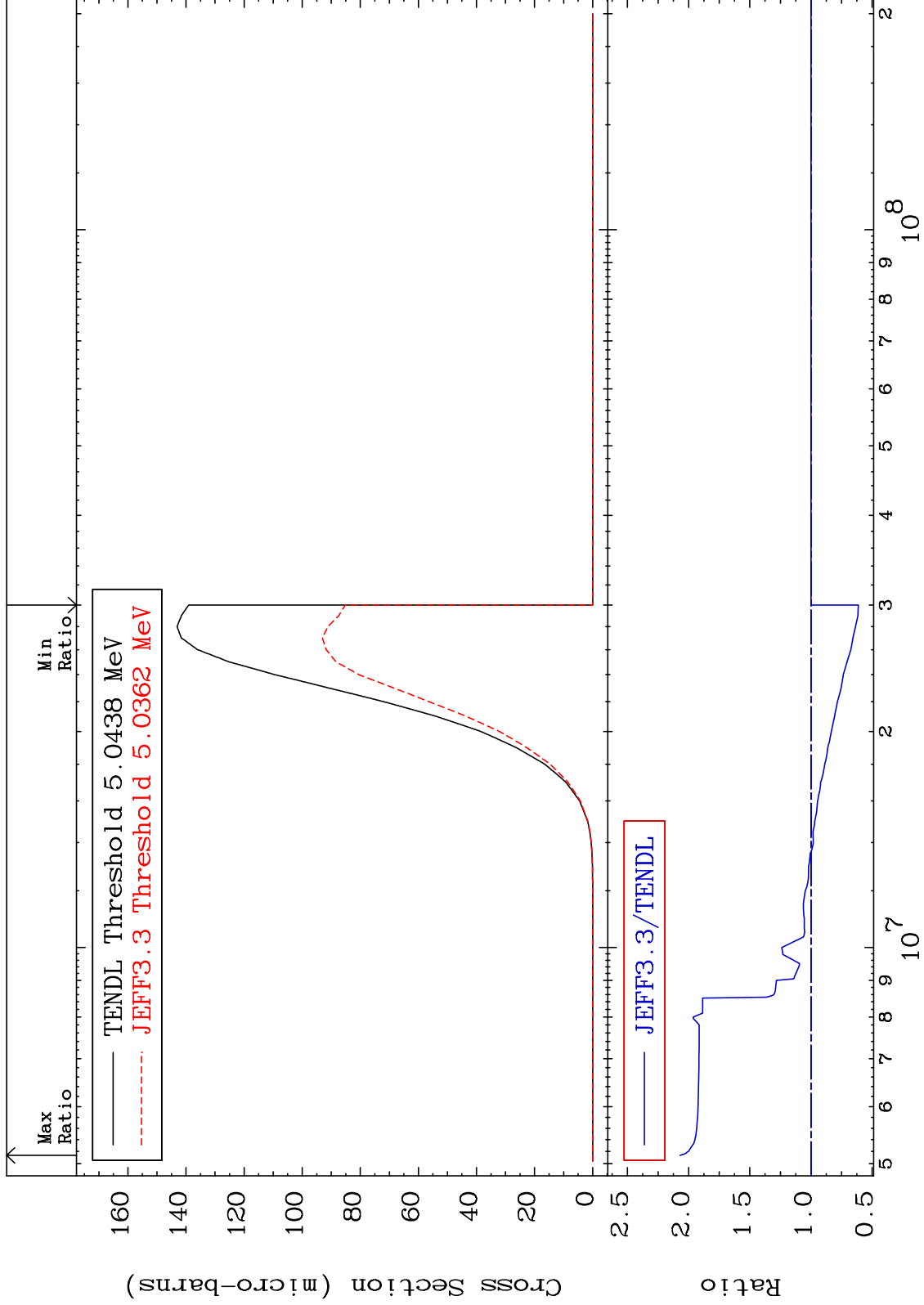
MAT 5425

(n,2p):52-Te-123g

54-Xe-124

Radionuclide Production Cross Section

-38.74 To 107.0 %

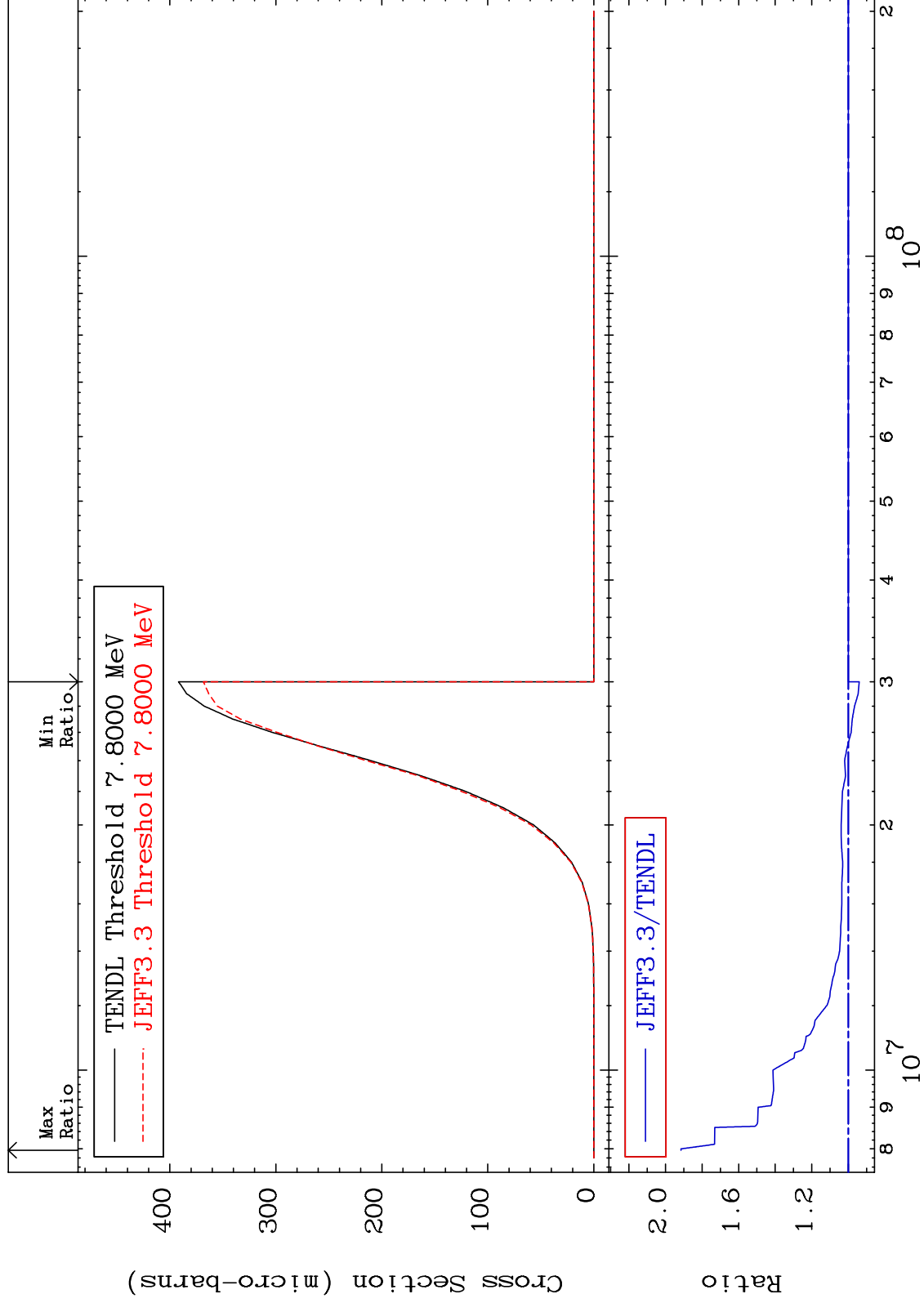


MAT 5425

(n,2p):52-Te-123m2

54-Xe-124

Radionuclide Production Cross Section -5.984 To 91.49 %

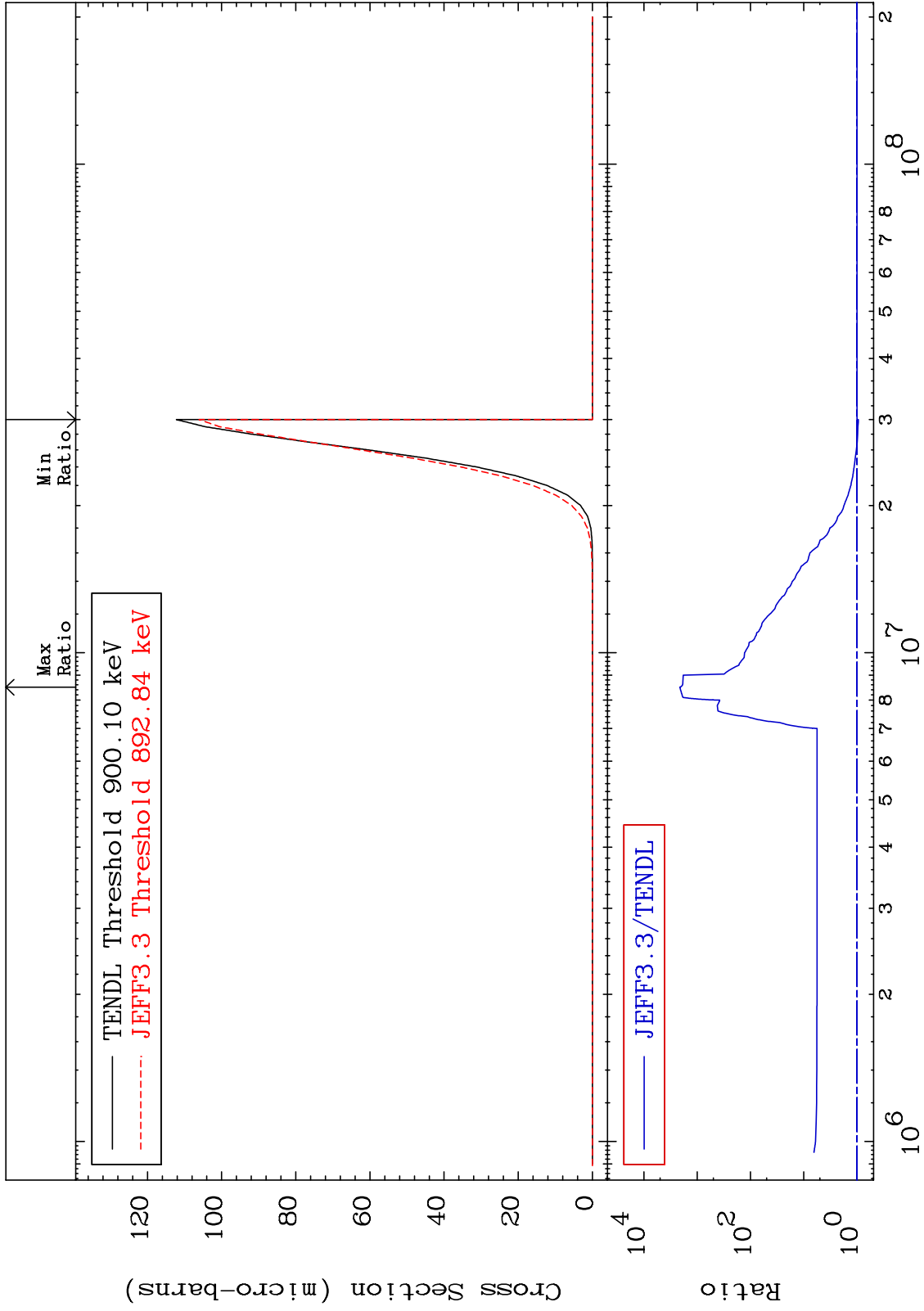


MAT 5425

(n, p) α :51-Sb-120g

54-Xe-124

Radionuclide Production Cross Section -5.469 To 9999. %



85

Incident Energy (eV)

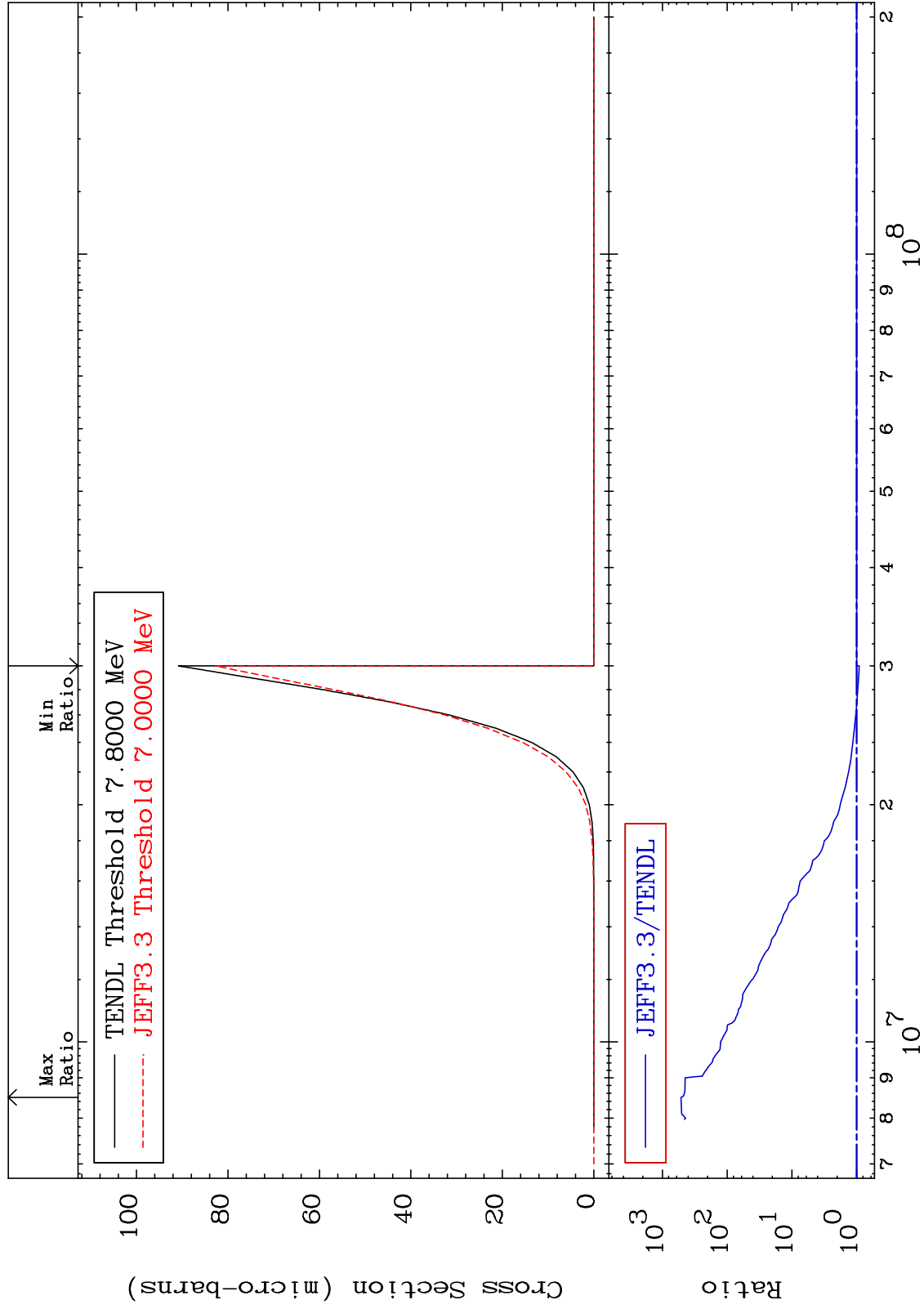
54-Xe-124

MAT 5425

(n, p) α :51-Sb-120m6

54-Xe-124

Radionuclide Production Cross Section -8.935 To 9999. %

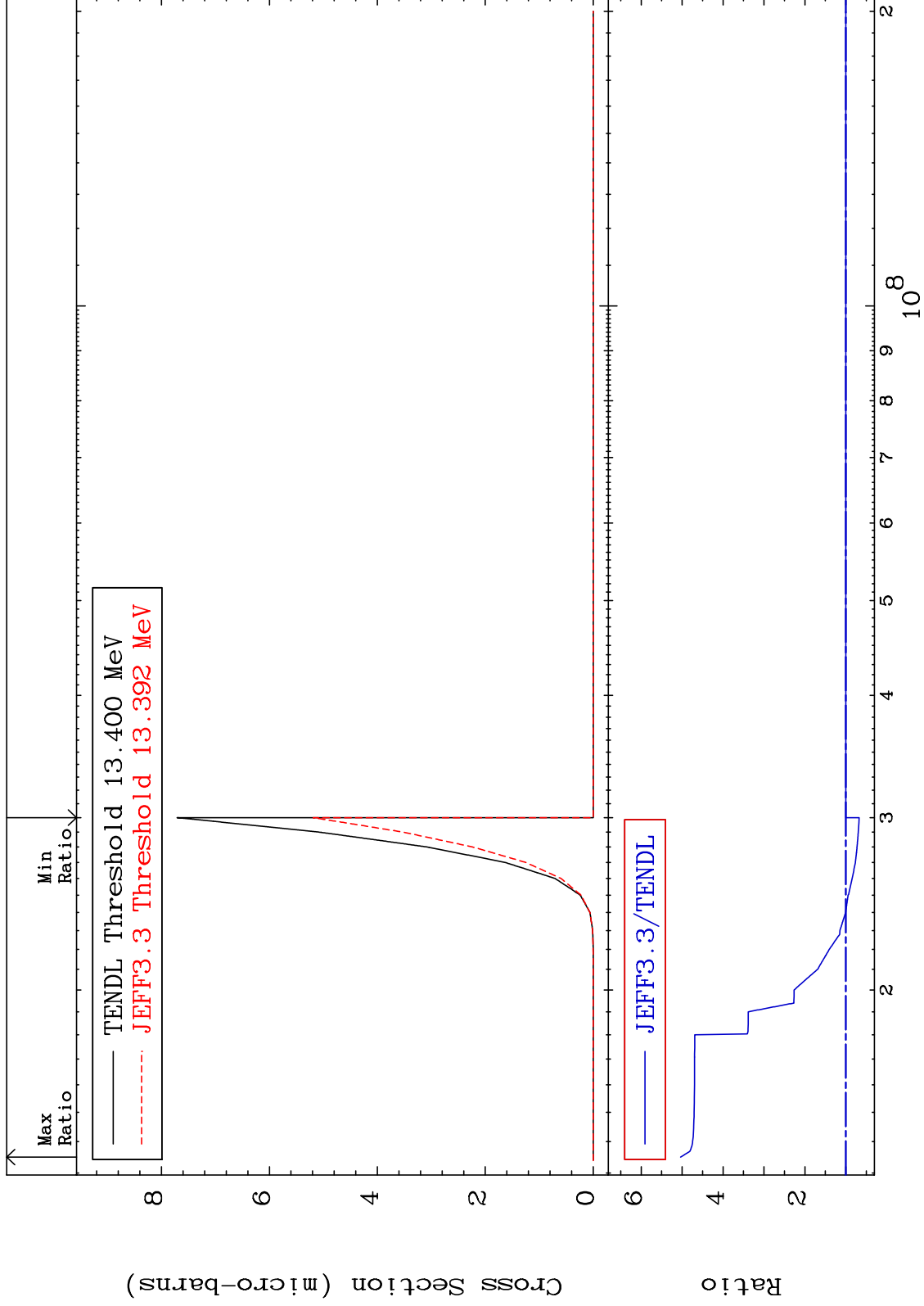


MAT 5425

(n, p) t:52-Te-121g

54-Xe-124

Radionuclide Production Cross Section -32.67 To 403.6 %



Max Ratio

Min Ratio

TENDL Threshold 13.400 MeV

JEFF3.3 Threshold 13.392 MeV

JEFF3.3/TENDL

MAT 5425

(n, p) t:52-Te-121m2

54-Xe-124

Radionuclide Production Cross Section -2.569 To 491.0 %

